SOCAY Brand SMBJ40A 64.5V Zener Diode 9.3A lpp Tvs DO-214AA SMBJ Standard Diode Circuit Protection TVS DIODE

Basic Information

• Place of Origin: Shenzhen, Guangdong, China

• Brand Name: SOCAY

• Certification: UL,REACH,RoHS,ISO

Model Number: SMBJ40A
Minimum Order Quantity: 5000PCS
Price: Negotiable
Packaging Details: tape reel
Delivery Time: 1-2weeks

• Payment Terms: T/T, Western Union, MoneyGram

• Supply Ability: 1000000pcs



Product Specification

Product Name: TVS DiodesSMBJ40A Package Type: DO-214AA/SMB

SMBJ40A Vrwm: 40V
 Vbr@lt (Min.): 44.4V
 Vbr@lt (Max.): 49.1V
 SMBJ40A lt: 1mA
 Vc@lpp: 69.5V
 SMBJ40A lpp: 9.30A
 SMBJ40A lr@Vrwm: 5μA

• Storage Temperature -55 To +150

Range:

Product Description

SOCAY Brand SMBJ40A 64.5V Zener Diode 9.3A lpp TVS DO-214AA SMBJ Standard Diode Circuit Protection TVS DIODE

DATASHEET: SMBJ_v88.2.pdf

TVS DIODE Description:

Since the establishment of the company, we have invested a lot of money in R&D and production process, committed to high-quality circuit protection solutions, and provided efficient technology, electronics components, and test support to global customers to meet the needs of quickly develop new products. In order to provide more convenient technical and logistics services, the sales system of SOCAY has widely covered North America, South America, Europe and Asia. In 2015, we completed the joint-stock reform and began to step into the high-speed track of joint-stock development. TVS devices are ideal for the protection of I/O interfaces, V_{CC} bus and other vulnerable circuits used in Telecom, Computer, Industrial and Consumer electronic applications.

TVS devices Part Number		TVS devices Marking		Stand-Off	Voltage VBR (V)		Test Current	Maximum Clamping Voltage VC	Maximum Peak	TVS devices Maximum Reverse Leakage IR @VRWM (µA)
Uni	Bi	Uni	Bi		MIN	MAX				
SMBJ3 0A	SMBJ30 CA	MK	СК	30.0	33.30	36.80	1	48.4	12.40	5
SMBJ3 3A	SMBJ33 CA	ММ	СМ	33.0	36.70	40.60	1	53.3	11.26	5
SMBJ3 6A	SMBJ36 CA	MP	СР	36.0	40.00	44.20	1	58.1	10.33	5
SMBJ4 0A	SMBJ40 CA	MR	CR	40.0	44.40	49.10	1	64.5	9.30	5
1	SMBJ43 CA	MT	СТ	43.0	47.80	52.80	1	69.4	8.65	5

Parti	Number	Marking		Reverse Stand-Off Voltage	Breakdown Voltage V _{BR} (V) @I _T		Test Current	Maximum Clamping Voltage	Maximum Peak Pulse	Maximum Reverse Leakage I _R
Uni	Bi	Uni		V _{RWM} (V)	MIN	MAX	(mA)	V₀ @⊷ (V)	Current lee (A)	@V _{RWM} (μA)
SMBJ3.3A	-	K1	-	3.3	5.20	6.50	10	8.0	75.00	600
SMBJ5.0A	SMBJ5.0CA	KE	AE	5.0	6.40	7.00	10	9.2	65.22	800
SMBJ6.0A	SMBJ6.0CA	KG	AG	6.0	6.67	7.37	10	10.3	58.25	800
SMBJ6.5A	SMBJ6.5CA	KK	AK	6.5	7.22	7.98	10	11.2	53.57	500
SMBJ7.0A	SMBJ7.0CA	KM	AM	7.0	7.78	8.60	10	12.0	50.00	200
SMBJ7.5A	SMBJ7.5CA	KP	AP	7.5	8.33	9.21	1	12.9	46.51	100
SMBJ8.0A	SMBJ8.0CA	KR	AR	8.0	8.89	9.83	1	13.6	44.12	50
SMBJ8.5A	SMBJ8.5CA	KT	AT	8.5	9.44	10.40	1	14.4	41.67	10
SMBJ9.0A	SMBJ9.0CA	KV	AV	9.0	10.00	11.10	1	15.4	38.96	5
SMBJ10A	SMBJ10CA	KX	AX	10.0	11.10	12.30	1	17.0	35.29	5
SMBJ11A	SMBJ11CA	KZ	WZ	11.0	12.20	13.50	1	18.2	32.97	5
SMBJ12A	SMBJ12CA	LE	BE	12.0	13.30	14.70	1	19.9	30.15	5
SMBJ13A	SMBJ13CA	LG	BG	13.0	14.40	15.90	1	21.5	27.91	5
SMBJ14A	SMBJ14CA	LK	BK	14.0	15.60	17.20	1	23.2	25.86	5
SMBJ15A	SMBJ15CA	LM	BM	15.0	16.70	18.50	1	24.4	24.59	5
SMBJ16A	SMBJ16CA	LP	BP	16.0	17.80	19.70	1	26.0	23.08	5
SMBJ17A	SMBJ17CA	LR	BR	17.0	18.90	20.90	1	27.6	21.74	5
SMBJ18A	SMBJ18CA	LT	BT	18.0	20.00	22.10	1	29.2	20.55	5
SMBJ19A	SMBJ19CA	LB	BB	19.0	21.10	23.30	1	30.8	19.49	5
SMBJ20A	SMBJ20CA	LV	BV	20.0	22.20	24.50	1	32.4	18.52	5
SMBJ22A	SMBJ22CA	LX	BX	22.0	24.40	26.90	1	35.5	16.90	5
SMBJ24A	SMBJ24CA	LZ	BZ	24.0	26.70	29.50	1	38.9	15.42	5
SMBJ26A	SMBJ26CA	ME	CE	26.0	28.90	31.90	1	42.1	14.25	5
SMBJ28A	SMBJ28CA	MG	CG	28.0	31.10	34.40	1	45.4	13.22	5
SMBJ30A	SMBJ30CA	MK	CK	30.0	33.30	36.80	1	48.4	12.40	5
SMBJ33A	SMBJ33CA	MM	CM	33.0	36.70	40.60	1	53.3	11.26	5
SMBJ36A	SMBJ36CA	MP	CP	36.0	40.00	44.20	1	58.1	10.33	5
SMBJ40A	SMBJ40CA	MR	CR	40.0	44.40	49.10	1	64.5	9.30	5
SMBJ43A	SMBJ43CA	MT	CT	43.0	47.80	52.80	1	69.4	8.65	5

Electrical Characteristics (T _A =25 ^{to} unless otherwise noted) (Continue)										
Part Number		Marking		Reverse Stand-Off Voltage	Breakdown Voltage V _{BR} (V) @I _T		Test Current I _T	Maximum Clamping Voltage Vc	Maximum Peak Pulse Current	Maximum Reverse Leakage I _R @V _{RWM}
Uni	Bi	Uni	Bi	V _{RWM} (V)	MIN	MAX	(mA)	@lpp (V)	Ipp (A)	(µA)
SMBJ45A	SMBJ45CA	MV	CV	45.0	50.00	55.30	1	72.7	8.25	5
SMBJ48A	SMBJ48CA	MX	CX	48.0	53.30	58.90	1	77.4	7.75	5
SMBJ51A	SMBJ51CA	MZ	CZ	51.0	56.70	62.70	1	82.4	7.28	5
SMBJ54A	SMBJ54CA	NE	DE	54.0	60.00	66.30	1	87.1	6.89	5
SMBJ58A	SMBJ58CA	NG	DG	58.0	64.40	71.20	1	93.6	6.41	5
SMBJ60A	SMBJ60CA	NK	DK	60.0	66.70	73.70	1	96.8	6.20	5
SMBJ64A	SMBJ64CA	NM	DM	64.0	71.10	78.60	1	103.0	5.83	5
SMBJ70A	SMBJ70CA	NP	DP	70.0	77.80	86.00	1	113.0	5.31	5
SMBJ75A	SMBJ75CA	NR	DR	75.0	83.30	92.10	1	121.0	4.96	5
SMBJ78A	SMBJ78CA	NT	DT	78.0	86.70	95.80	1	126.0	4.76	5
SMBJ 80A	SMBJ80CA	NB	DB	80.0	88.80	97.60	1	129.6	4.63	5
SMBJ85A	SMBJ85CA	NV	DV	85.0	94.40	104.00	1	137.0	4.38	5
SMBJ90A	SMBJ90CA	NX	DX	90.0	100.00	111.00	1	146.0	4.11	5
SMBJ100A	SMBJ100CA	NZ	DZ	100.0	111.00	123.00	1	162.0	3.70	5
SMBJ110A	SMBJ110CA	PE	EE	110.0	122.00	135.00	1	177.0	3.39	5
SMBJ120A	SMBJ120CA	PG	EG	120.0	133.00	147.00	1	193.0	3.11	5
SMBJ130A	SMBJ130CA	PK	EK	130.0	144.00	159.00	1	209.0	2.87	5
SMBJ140A	SMBJ140CA	PB	EB	140.0	155.00	171.00	1	226.8	2.65	5
SMBJ150A	SMBJ150CA	PM	EM	150.0	167.00	185.00	1	243.0	2.47	5
SMBJ160A	SMBJ160CA	PP	EP	160.0	178.00	197.00	1	259.0	2.32	5
SMBJ170A	SMBJ170CA	PR	ER	170.0	189.00	209.00	1	275.0	2.18	5
SMBJ180A	SMBJ180CA	PT	ET	180.0	201.00	220.00	1	291.6	2.06	5
SMBJ190A	SMBJ190CA	PV	EV	190.0	211.00	232.00	1	307.8	1.95	5
SMBJ200A	SMBJ200CA	PW	EW	200.0	224.00	247.00	1	324.0	1.85	5
SMBJ220A	SMBJ220CA	PX	EX	220.0	246.00	272.00	1	356.0	1.69	5
SMBJ250A	SMBJ250CA	PZ	EZ	250.0	279.00	309.00	1	405.0	1.48	5
SMBJ300A	SMBJ300CA	QE	FE	300.0	335.00	371.00	1	486.0	1.23	5
SMBJ350A	SMBJ350CA	QG	FG	350.0	391.00	432.00	1	567.0	1.06	5
SMBJ400A	SMBJ400CA	QK	FK	400.0	447.00	494.00	1	648.0	0.93	5
SMBJ440A	SMBJ440CA	QM	FM	440.0	492.00	543.00	1	713.0	0.84	5

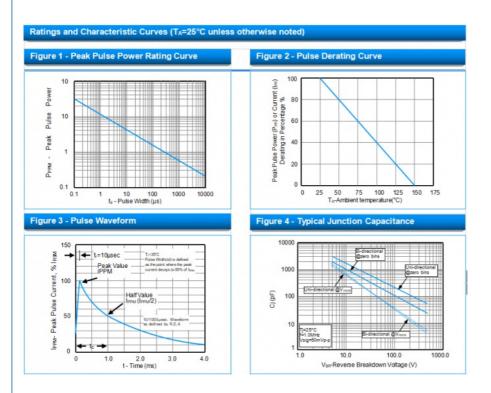


Figure 5 - Steady State Power Derating Curve

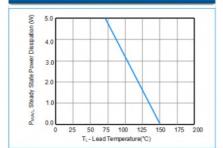
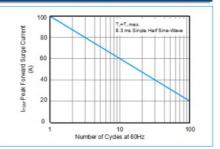
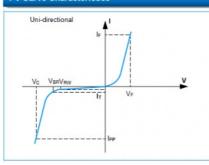
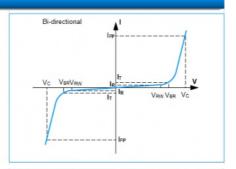


Figure 6 - Maximum Non-Repetitive Surge Current



I-V Curve Characteristics





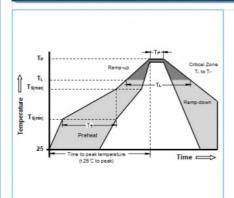
Physical Specifications

Weight	0.003 ounce, 0.093 gram					
Case	JEDEC DO-214AA Molded Plastic over glass passivated junction					
Polarity	Color band denotes cathode except Bipolar					
Terminal Matte Tin-plated leads, Solderable						

Environmental Specifications

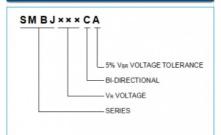
Temperature Cycle	JESD22-A104
Pressure Cooker	JESD22-A102
High Temp. Storage	JESD22-A103
HTRB	JESD22-A108
Thermal Shock	JESD22-A106

Soldering Parameters

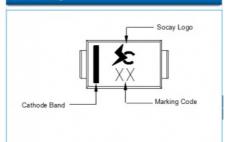


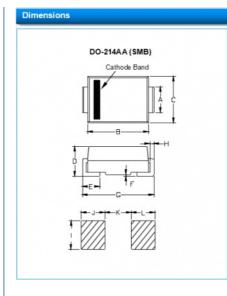
Reflow Co	ndition	Lead-free assembly		
	-Temperature Min (T _{s(min)})	150°C		
Pre Heat	-Temperature Max (T _{s(max)})	200°C		
	- Time (min to max) (T _s)	60 -180 Seconds		
Average ra to peak	ump up rate (Liquidus Temp T _L)	3°C/second max		
T _{S(max)} to T	L - Ramp-up Rate	3°C/second max		
D. 0	- Temperature (T _L) (Liquidus)	217°C		
Reflow	- Time (min to max) (T _L)	60 -150 Seconds		
Peak Temp	perature (T _P)	260 +0/-5°C		
Time wit	thin 5°C of actual peak ire (t _p)	20 -40 Seconds		
Ramp-dow	n Rate	6°C/second max		
Time 25°C	to peak Temperature (T _P)	8 minutes Max		
Do not exc	eed	280°C		

Part Numbering

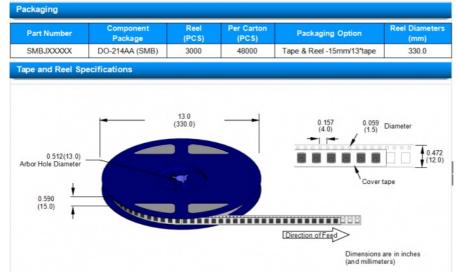


Part Marking





Di-	Inc	hes	Millimeters			
Dimensions	Min	Max	Min	Max		
Α	0.073	0.087	1.85	2.21		
В	0.167	0.191	4.25	4.85		
С	0.130	0.155	3.30	3.94		
D	0.085	0.104	2.15	2.65		
E	0.030	0.060	0.75	1.52		
F	-	0.008	-	0.203		
G	0.200	0.220	5.08	5.59		
н	0.006	0.012	0.15	0.31		
1	0.089	-	2.26	-		
J	0.085	-	2.10	-		
к	-	0.107		2.74		
L	0.085	-	2.10	-		







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