MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data sheet

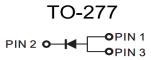












■ Features

- Low forward voltage drop.
- · Excellent high temperature stability.
- Fast switching capability.
- Suffix "G" indicates Halogen-free part, ex.CP10S45SG.
- · Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ Mechanical data

- Epoxy: UL94-V0 rated flame retardant.
- · Case: Molded plastic, TO-277.
- Lead: Solder plated, solderable per MIL-STD-750, Method 2026.
- Polarity: Indicated by cathode band.
- Mounting Position : Any.
- Weight: Approximated 0.093 grams.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

P/N(MARK)	SB1545L	UNITS
Maximum Recurrent Peak Reverse Voltage	45	V
Maximum RMS Voltage	32	V
Maximum DC Blocking Voltage	45	V
Maximum Average Forward Rectified Current		
See Fig. 1	15.0	А
Peak Forward Surge Current, 8.3 ms single half sine-wave		
superimposed on rated load (JEDEC method)	175	A
Maximum Instantaneous Forward Voltage at 15.0A	0.47	V
Maximum DC Reverse Current Ta=25°C	0.2	mA
at Rated DC Blocking Voltage Ta=100°C	20	mA
Typical Junction Capacitance (Note1)		pF
Typical Thermal Resistance R JA (Note 2)	31	°C/W
Operating Temperature Range T _J	-65 — +150	°C
Storage Temperature Range Tsrg	-65 — +150	°C

Note: 1.FR-4 PCB, 2oz.Copper.
2.Polymide PCB, 2oz.Copper.Cathode pad dimensions 18.8mm x 14.4mm.Anode pad dimensions 5.6mm x 14.4mm.



RATING AND CHARACTERISTIC CURVES

Fig. 1 - Forward Power Dissipation

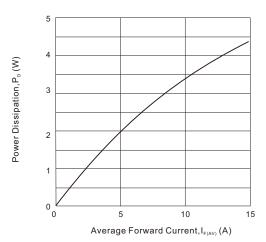


Fig. 3 - Reverse Characteristics

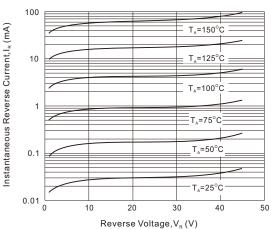


Fig. 5 - Total Capacitance VS.

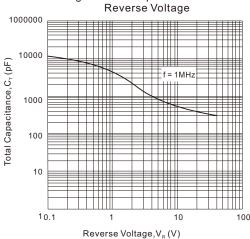


Fig. 2 - Instantaneous Forward Characteristics

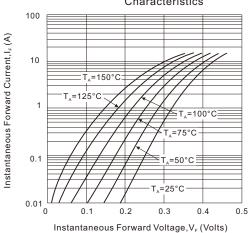


Fig.4 - Forward Current Derating Curve

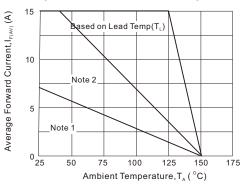
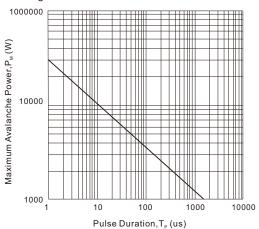


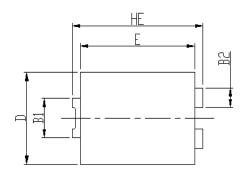
Fig. 6 - Maximum Avalanche Power Curve



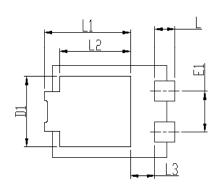




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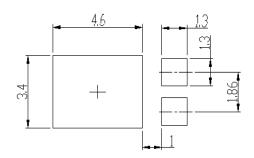






	Unit: mm		Unit: inch	
DIM	MIN	MAX	MIN	MAX
HE	6.4	6.6	0.252	0.260
Е	5.6	5.8	0.220	0.228
D	4.1	4.3	0.161	0.169
B1	1.7	1.9	0.067	0.075
B2	0.8	1	0.031	0.039
Α	1.05	1.2	0.041	0.047
С	0.3	0.4	0.012	0.016
L	0.85	1.1	0.033	0.043
L1	4.2	4.4	0.165	0.173
L2	3.52 Typ.		0.139 Typ.	
L3	1.1	1.4	0.043	0.055
D1	3	3.3	0.118	0.130
E1	1.86 Typ.		0.073 Typ.	

T0-277 Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance ± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
SB1545L	TO-277	5000



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