



Product data sheet

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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.

TO-277

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)	SL1550	UNITS
Maximum Recurrent Peak Reverse Voltage	50	V
Maximum RMS Voltage	35	V
Maximum DC Blocking Voltage	50	V
Maximum Average Forward Rectified Current		
See Fig. 1	15.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave		
superimposed on rated load (JEDEC method)	175	А
Maximum Instantaneous Forward Voltage at 15.0A	0.53	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 TJ	-65-+150	°C
Storage Temperature Range Tsrc	-65-+150	٦°

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.

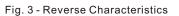


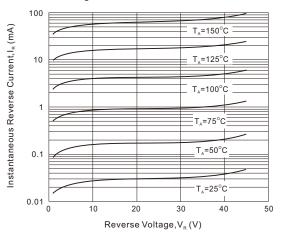


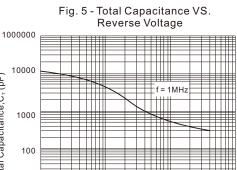
RATING AND CHARACTERISTIC CURVES

5 4 Power Dissipation, P_D (W) 3 2 1 0 15 5 10 Average Forward Current, I_{F(AV)} (A)

Fig. 1 - Forward Power Dissipation





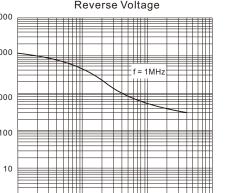


1

Reverse Voltage, V_{R} (V)

Total Capacitance, C_{\tau} (pF)

10.1



10

100

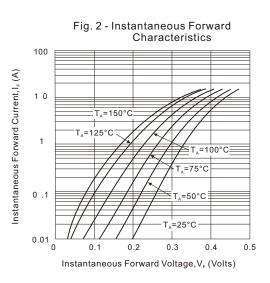
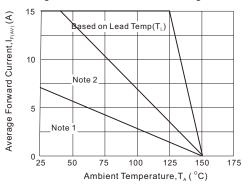
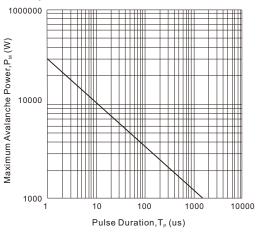


Fig.4 - Forward Current Derating Curve





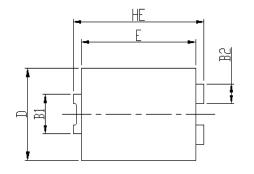




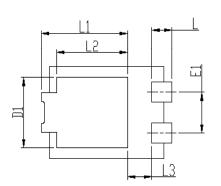
Semiconductor Compiance

SL1550 HF

Rons

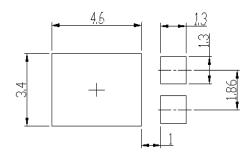






Unit: mm Unit: inch DIM MIN MAX MIN MAX 0.252 ΗE 6.4 6.6 0.260 0.220 0.228 Ε 5.6 5.8 D 4.1 4.3 0.161 0.169 Β1 1.7 1.9 0.067 0.075 B2 0.8 1 0.031 0.039 1.05 1.2 0.041 0.047 А С 0.3 0.4 0.012 0.016 L 0.85 1.1 0.033 0.043 L1 4.2 4.4 0.165 0.173 3.52 Typ. L2 0.139 Typ. 0.043 0.055 L3 1.1 1.4 D1 3 3.3 0.118 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
SL1550	TO-277	5000





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