

Features

- Average Forward Current: I_{F(AV)}=1.5A
- Polarity: Color band denotes cathode

HXY

SOD-123FL



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
CRS08	SOD-123FL	S8	3000

Maxmim Ratings (Ta=25 unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number		CRS08	Units
Maximum Recurrent Peak Reverse Voltage		40	V
Maximum RMS Voltage		28	V
Maximum DC Blocking Voltage	40	V	
Maximum Average Forward Rectified Curr	rent		
See Fig. 1		1.5	А
Peak Forward Surge Current, 8.3 ms single half sine-wave			
superimposed on rated load (JEDEC method)		50	А
Maximum Instantaneous Forward Voltage at 1.5A		0.55	V
Maximum DC Reverse Current	Ta=25°C	0.5	mA
at Rated DC Blocking Voltage	Ta=100°C	5	mA
Typical Junction Capacitance (Note1)		220	pF
Typical Thermal Resistance R JA (Note 2)		80	°C/W
Operating Temperature Range T _J		-50 —+125	°C
Storage Temperature Range Tsrc		-50—+125	°C

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Ambient.



Typical Characteristics

Fig.1 Forward Current Derating Curve

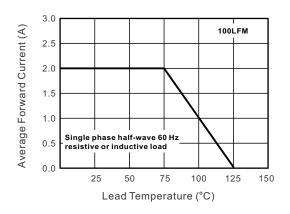


Fig.2 Typical Reverse Characteristics

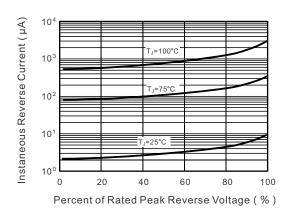


Fig.3 Typical Forward Characteristic

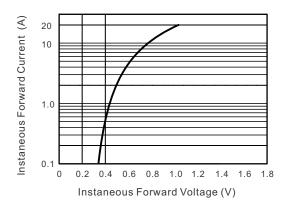


Fig.4 Typical Junction Capacitance

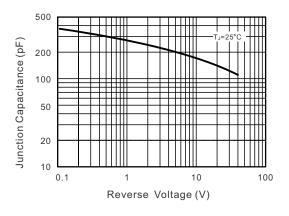


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

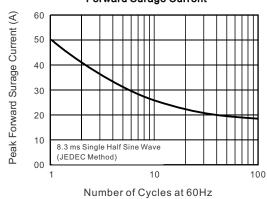
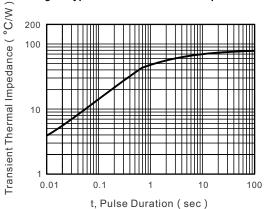
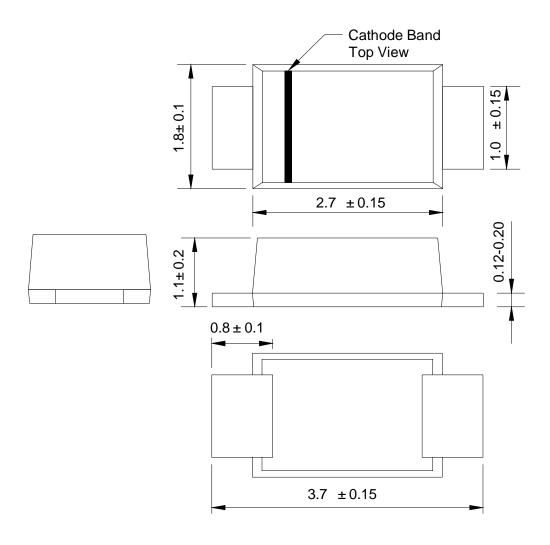


Fig.6- Typical Transient Thermal Impedance





Package Outline Dimensions SOD-123FL





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