



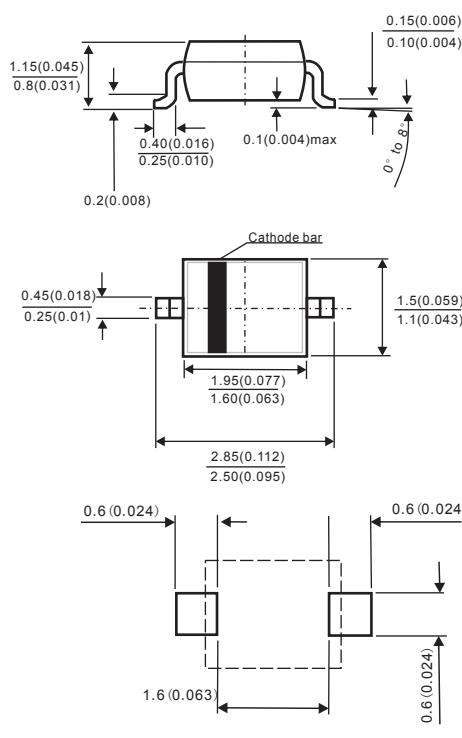
3DSR1M

1.0 AMP Surface Mount General Purpose Silicon Rectifiers

Features

- Low profile space
- Ideal for automated placement
- Glass passivated chip junctions
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering:
260°C/10 seconds at terminals

SOD - 323



Dimensions in millimeters and (inches)

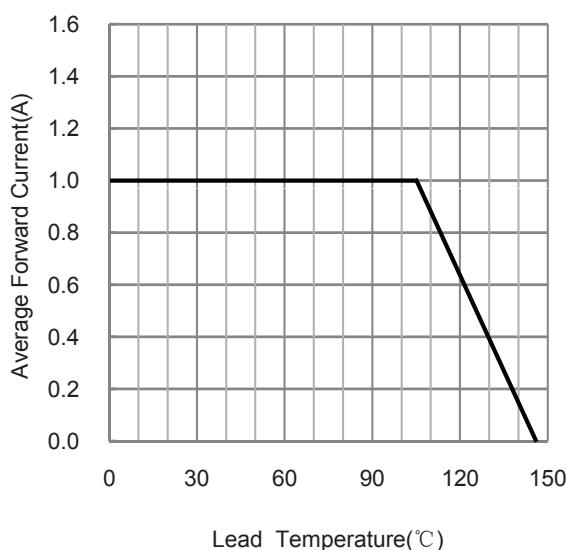
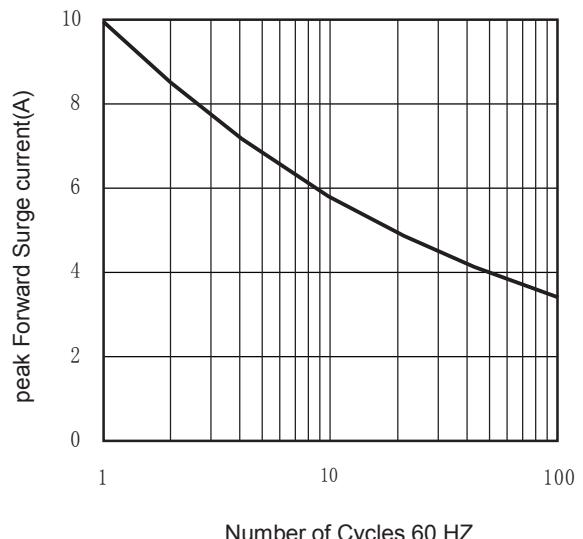
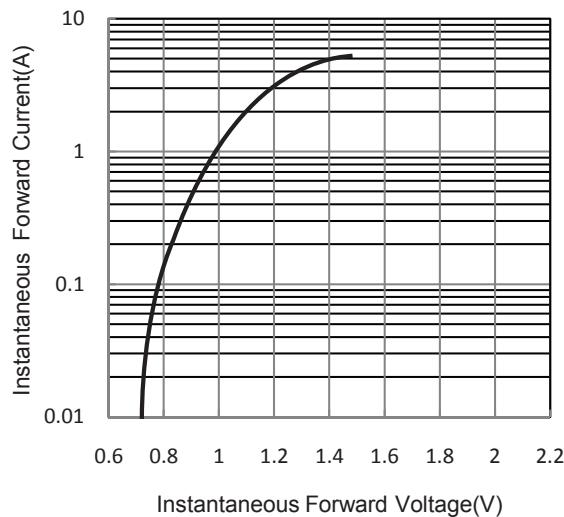
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

	SYMBOLS	3DSR1M 3S1K	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC blocking voltage	V_{DC}	1000	V
Maximum average forward rectified current at $T_L=100^\circ C$	I_{AV}	1.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	10.0	A
Maximum instantaneous forward voltage at 1.0A	V_F	1.1	V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I_R	5.0 50.0	μA
Typical junction capacitance	C_J	4	pF
Typical thermal resistance	R_{0JA}	35	$^\circ C/W$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150	$^\circ C$



Fig.1 Forward Current Derating Curve

Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

Fig.3 Typical Instantaneous Forward Characteristics

Fig.4 Typical Reverse Leakage Characteristics
