HFZT

SR120~SR1200

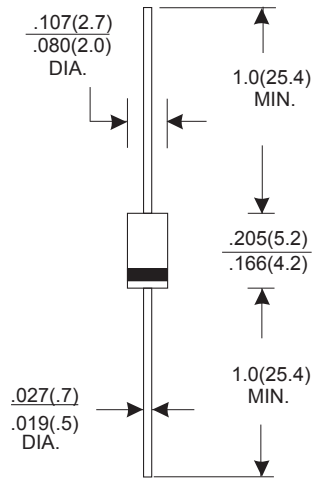
DO-41 PLASTIC SILICON RECTIFIERS

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing
- Low power loss,high efficiency
- High current capability,Low forward voltage drop
- High surge capability
- For use in low voltage,high frequency inverters free wheeling, and polarlity protection applications
- High temperature soldering guaranteed:260℃/10 seconds at terminals
- Component in accordance to RoHS 2015/863

MECHANICAL DATA

- Case:DO-41 molded plastic body
- Terminals:Lead solderable per MIL-STD-750,method 2026
- Polarity:Color band denotes cathode end
- Mounting Position:Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

TYPE NUMBER		SYMBOL	SR 120	SR 130	SR 140	SR 150	SR 160	SR 180	SR 1100	SR 1150	SR 1200	UNITS
Maximum recurrent peak reverse voltage		V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage		V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage		V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward rectified Current0.375"(9.5mm) lead length		$I_{F(AV)}$	1.0									A
Peak forw ard surge current 8.3ms single half sine-w ave superimposed on rated load		I_{FSM}	40.0									A
Maximum instantaneous forward voltage at 1.0 A(Note1)		V_F	0.55			0.70		0.85				V
Maximum reverse current at rated DC blocking voltage perdiode	@T_A=25℃	I_R	0.2					0.1				m A
	@T_A=125℃		20					5.0				
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	50.0									℃/W
Storage Temperature		T_{STG}	- 55 ---- + 150									℃
Operation Junction Temperature		T_j	- 55 ---- + 120									℃

NOTE: 1. Pulse test:300μs pulse width,1% duty cycle.

2. Thermal resistance from junction to case.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

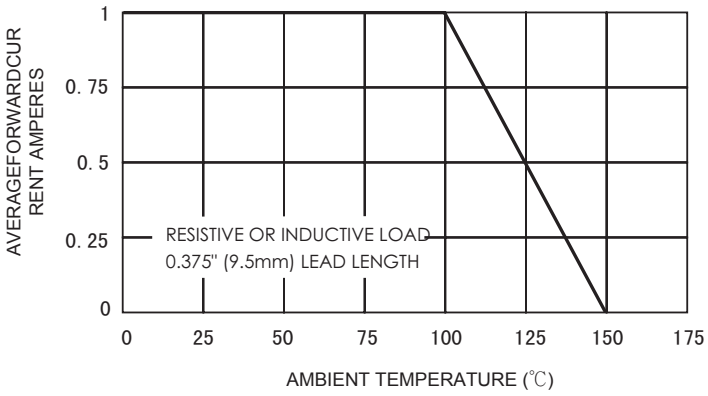


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

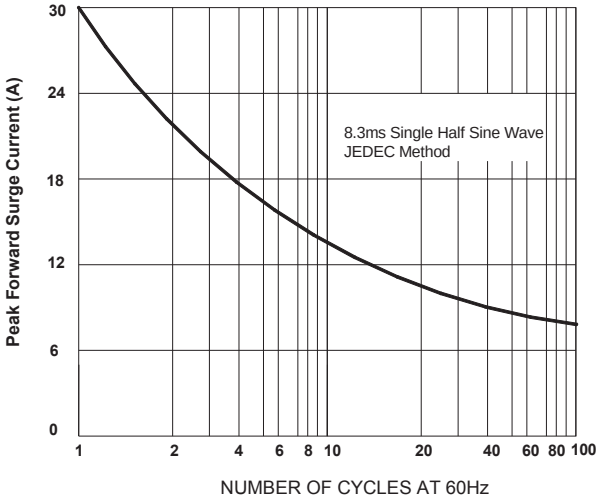


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

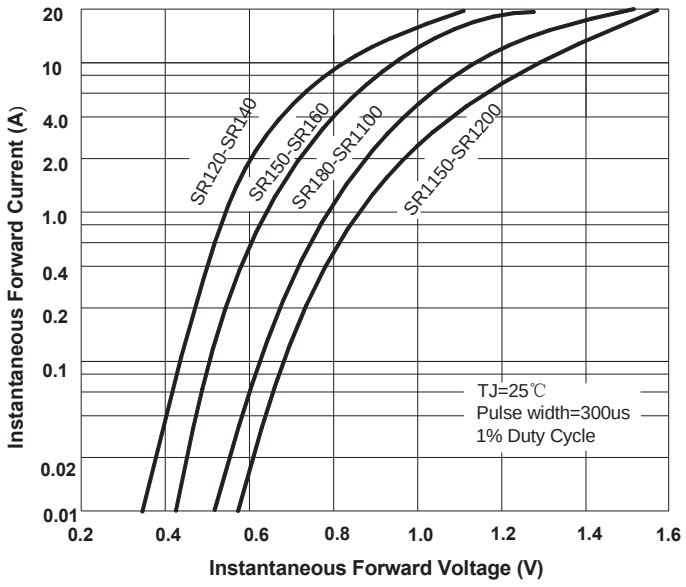


FIG.4-TYPICAL REVERSE CHARACTERISTICS