

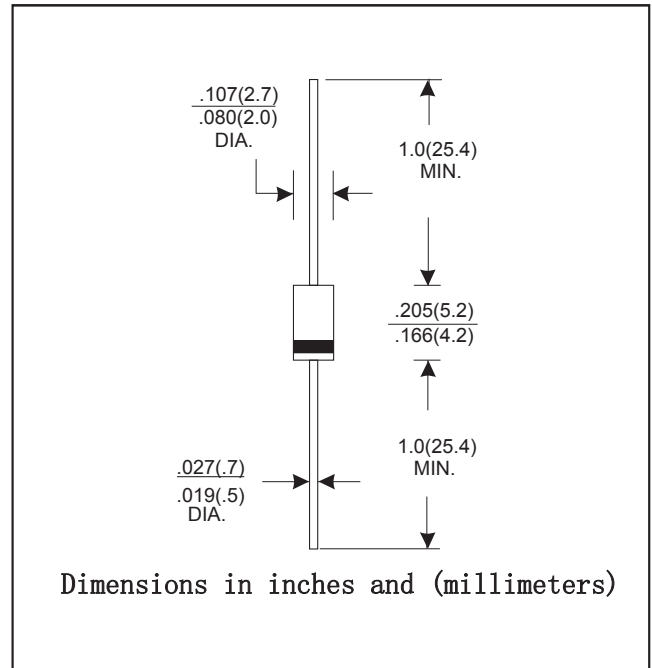
DO-41 PLASTIC SILICON RECTIFIERS

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 polarity protection applications
- High temperature soldering guaranteed:260°C/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



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

TYPE NUMBER	SYMBOL	SR	SR	SR	SR	SR	SR	SR	SR	SR	UNITS	
		120	130	140	150	160	180	1100	1150	1200		
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 Current 0.375"(9.5mm) lead length	$I_{F(AV)}$	1.0									A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	40.0									A	
Maximum instantaneous forward voltage at 1.0 A (Note 1)	V_F	0.55			0.70			0.85			V	
Maximum reverse current at rated DC blocking voltage per diode	I_R	@ $T_A=25^\circ\text{C}$	0.2					0.1				mA
		@ $T_A=125^\circ\text{C}$	20					5.0				
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50.0									°C/W	
Storage Temperature	T_{STG}	- 55 ---- + 150									°C	
Operation Junction Temperature	T_j	- 55 ---- + 120									°C	

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

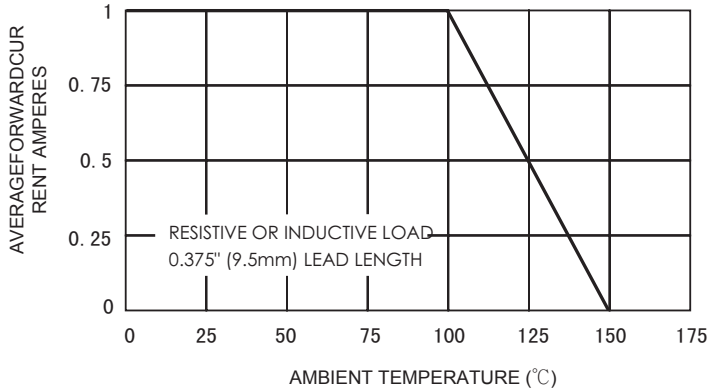


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

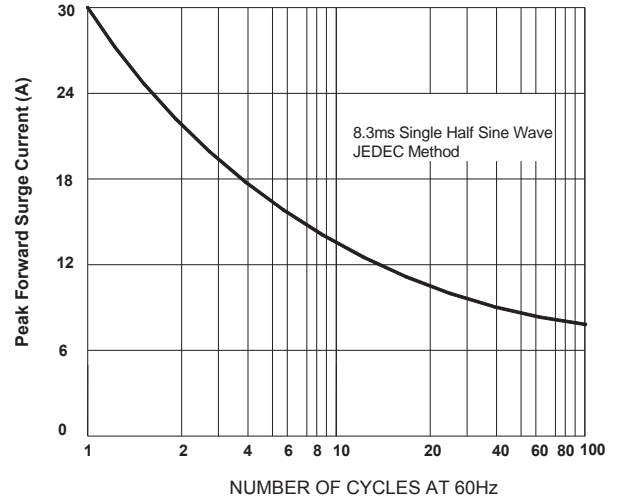


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

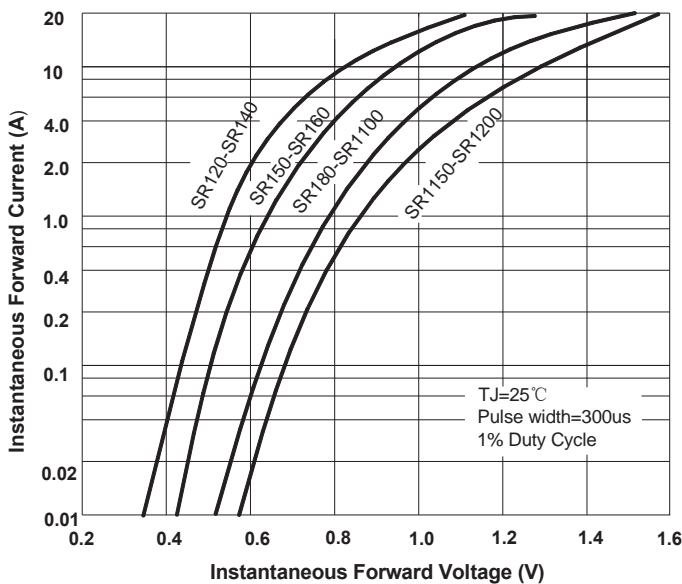


FIG.4-TYPICAL REVERSE CHARACTERISTICS

