



SR120 --- SR1200

SCHOTTKY BARRIER RECTIFIER

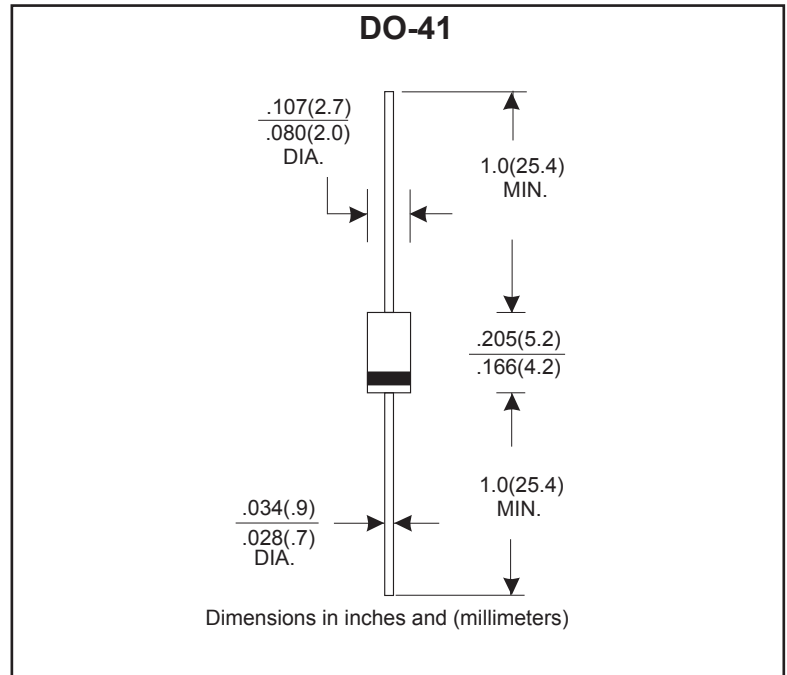
VOLTAGE RANGE: 20--- 200 V CURRENT: 1.0 A

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 2011/65/EU

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)Single phase,half wave,60 Hz,resistive or inductive load.

For capacitive load,derate by 20%.

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	42	56	63	71	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 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(Note1)	V_F	0.55			0.70			0.85			V	
Maximum reverse current at rated DC blocking voltage per diode	I_R	@ $T_A=25^\circ C$	0.2					0.1				mA
		@ $T_A=125^\circ C$	20					5.0				
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50.0									°C/W	
Typical junction capacitance(Note 3)	C_j	110									pF	
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

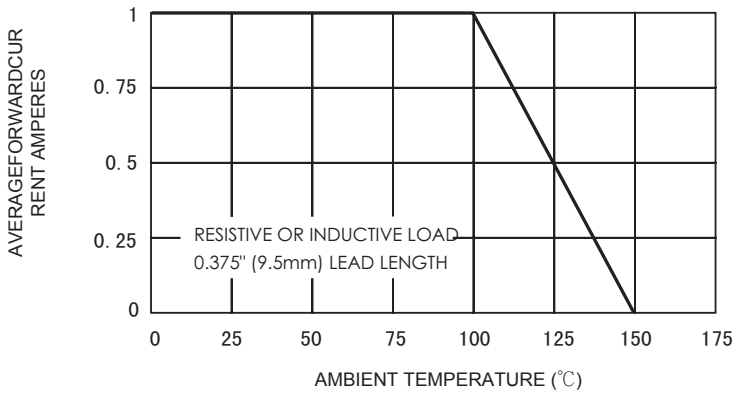


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

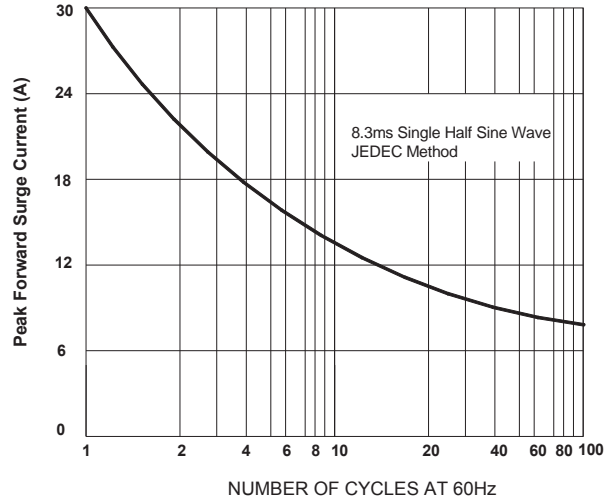


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

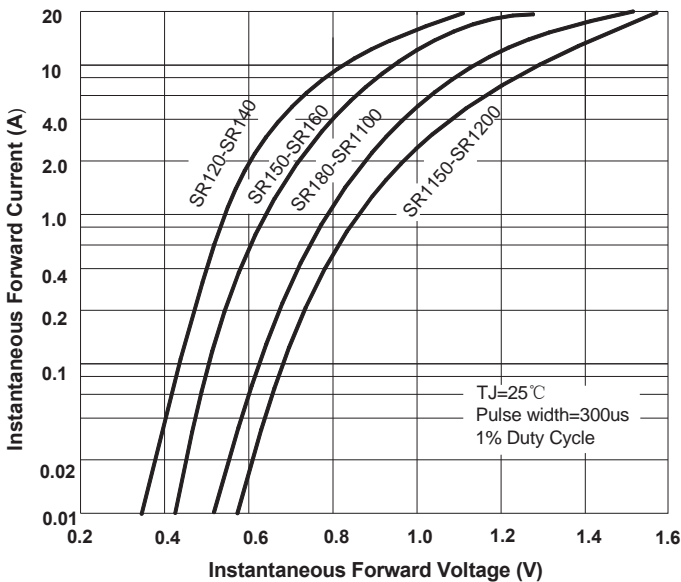


FIG.4-TYPICAL REVERSE CHARACTERISTICS

