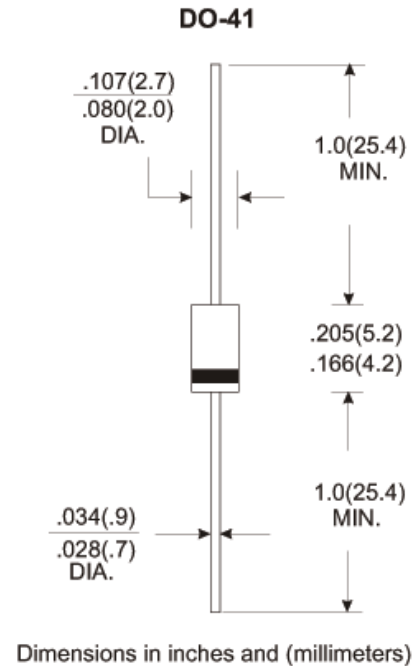


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for over voltage protection
- 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:
250°C/10 seconds at terminals,
- 0.375"(9.5mm)lead length,5lbs.(2.3kg)tension

Mechanical Data

- Case: JEDEC DO-41 molded plastic body
- Terminals: solder plated ,solder able per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any
- Weight: 0.012ounce,0.33 gram



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, derate current by 20%.

	Symbols	SR120	SR140	SR150	SR160	SR1100	SR1150	SR1200	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	50	60	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	14	28	35	42	70	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	20	40	50	60	100	150	200	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length	$I_{(AV)}$	1.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	40.0							Amp
Maximum instantaneous forward voltage at 1.0 A(Note 1)	V_F	0.55	0.70	0.85	0.90	0.95			Volts
Maximum Reverse Current $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	I_R	0.5							mAmp
		10							
Typical junction capacitance(Note 3)	C_J	110							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$ $R_{\theta JL}$	50.0 15.0							$^\circ\text{C/W}$
Operating Temperature Range	T_J	-65 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150							$^\circ\text{C}$

NOTES:

1. Pulse test: 300 μs pulse width, 1% duty cycle
2. Thermal resistance (from junction to ambient) Vertical P.C.B. mounted, with 1.5 X1.5"(38X38mm) copper pads
3. Measured at 1.0MHz and reverse voltage of 4.0 volts
4. SR1A0=SR1100

SCHOTTKY BARRIER RECTIFIER

SR120 THRU SR1200 20 to 200 V 1.0 A

RATINGS AND CHARACTERISTIC CURVES (SR120 THRU SR1200)

FIG.1-FORWARD CURRENT DERATING CURVE

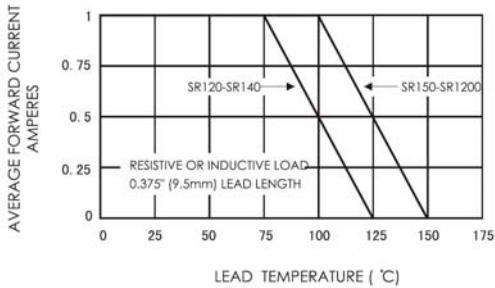


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

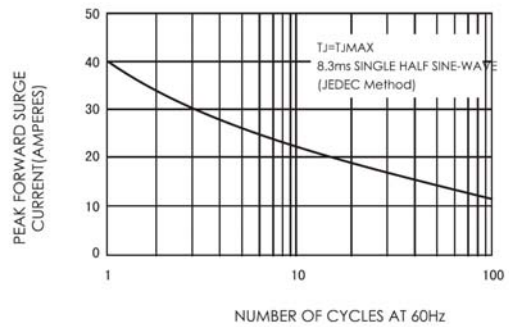


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

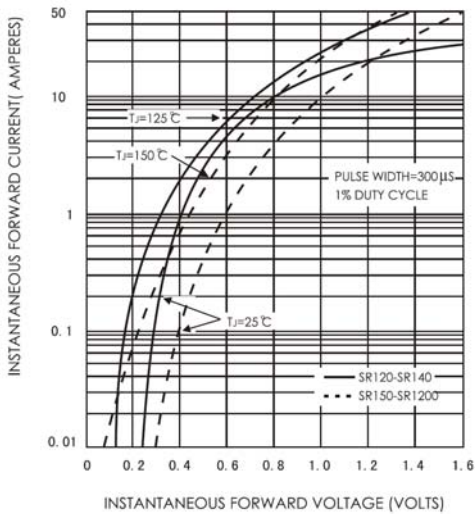


FIG.4-TYPICAL REVERSE CHARACTERISTICS

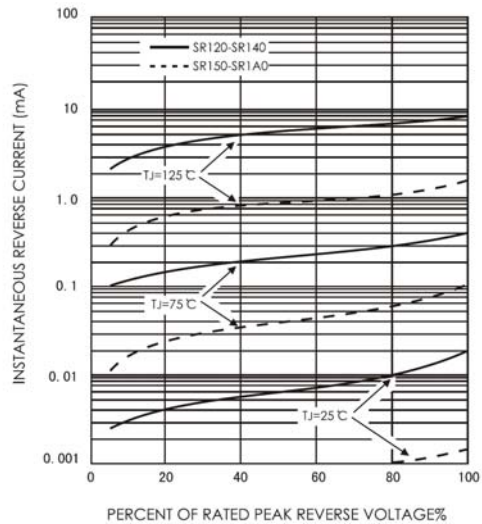


FIG.5-TYPICAL JUNCTION CAPACITANCE

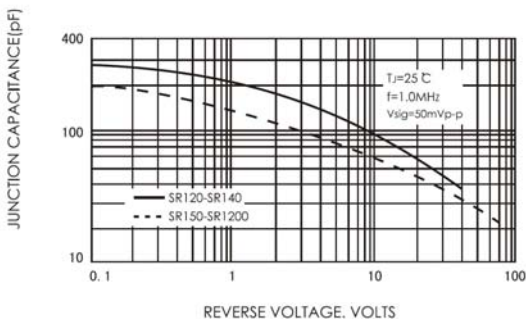


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

