Schottky Barrier Rectifier

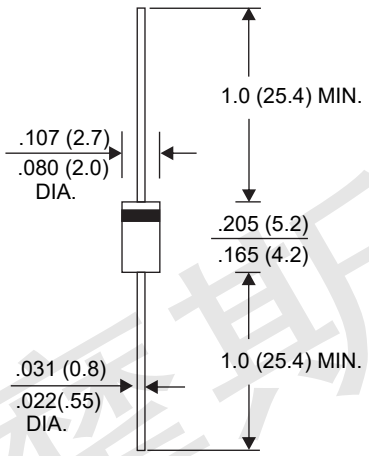
SR140 THRU SR1200 40 to 200 V 1.0A

RoHS COMPLIANT

FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Fast Recovery times for high efficiency
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals

DO-41(DO-204AL)



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: Molded plastic, DO-41and DO-204AL
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number and marks	Symbols	SR 140	SR 145	SR 160	SR 180	SR 1100	SR 1120	SR 1150	SR 1200	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	60	80	100	120	150	200	Volts
Maximum RMS Voltage	V_{RMS}	28	31.5	42	56	70	84	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	40	45	60	80	100	120	150	200	Volts
Maximum Average Forward Rectified Current. Lead Length @Ta(Fig 1)	$I_{(AV)}$	1.0								Amp
Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method) (Rating of per diode)	I_{FSM}	35								Amp
Maximum instantaneous forward voltage at $I_{(AV)}$	V_F	0.55	0.70		0.85		0.90		0.95	Volts
Maximum DC reverse current at rated DC blocking voltage per T_j=25℃	I_R	0.2			0.1					mA
T_j=100℃		20			6					
Typical Thermal Resistance	$R_{\Theta}JA$	50								℃/W
Junction Temperature	T_J	-65 to +150								℃
Storage Temperature Range	T_{STG}	-65 to +150								℃

Ordering Information (Example)

Prefered P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
DO-41	T1	about 0.27	5000	5000	50000	Tape
DO-204AL	B1	about 0.27	1000	1000	30000	Bulk
A-045	B2	about 0.27	500	500	20000	Bulk

RoHS COMPLIANT

RATINGS AND CHARACTERISTIV CURVES

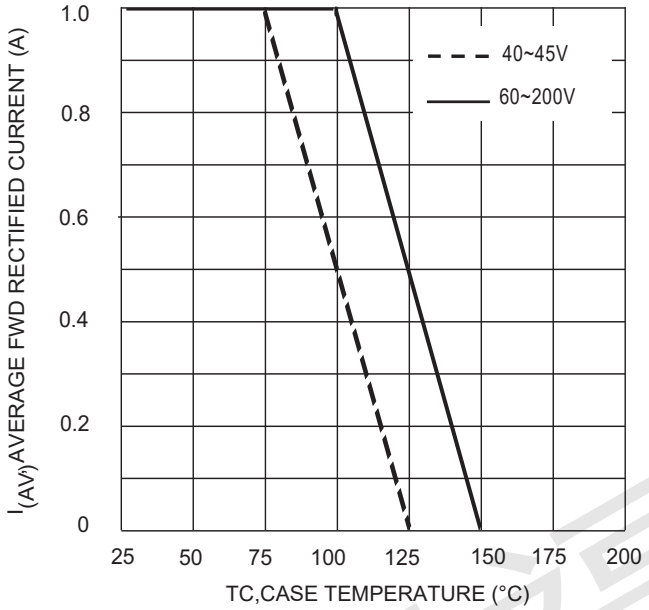


Fig. 1 Forward Derating Curve

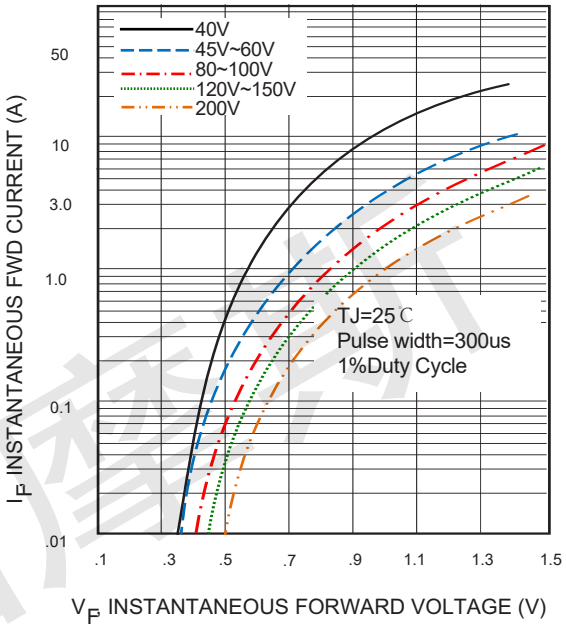


Fig. 2 Typical Forward Characteristics

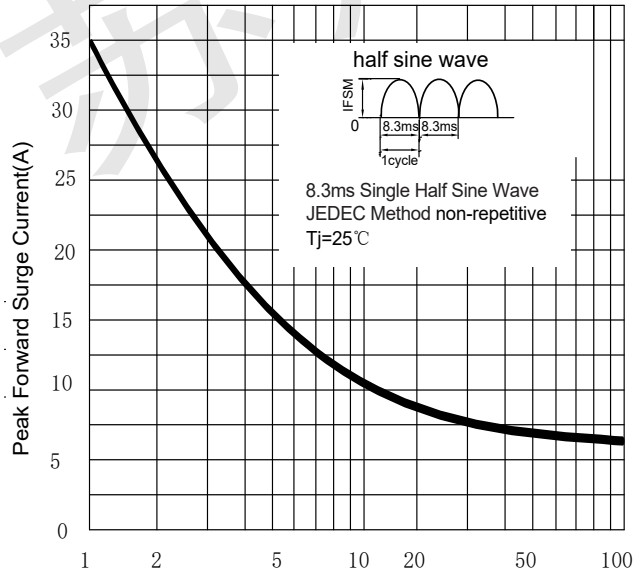


Fig. 3 Peak Forward Surge Current

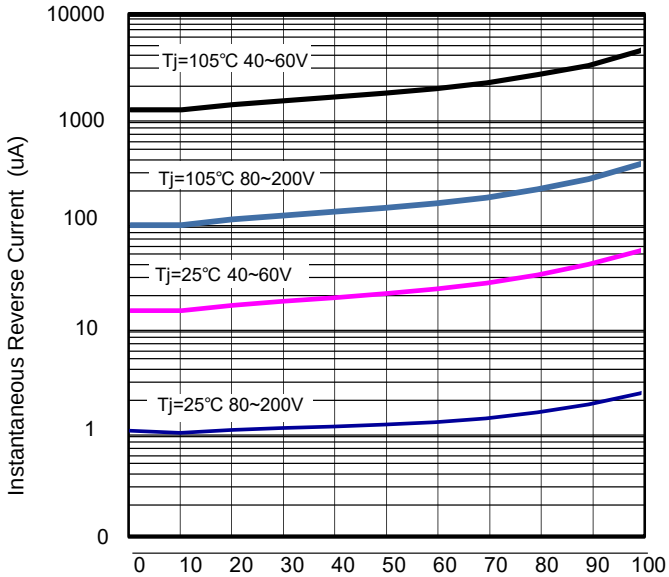


Fig.4-Typical Forward Characteristics

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