Schottky Barrier Rectifiers

Reverse Voltage - 40 to 200 V
Forward Current - 10 A

FEATURES

- Guardring for overvoltage protection
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed

  250 /10 seconds at terminals
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: DO-201AD/ DO-27
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight:

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	SR1040	SR1045	SR1060	SR1080	SR10100	SR10150	SR10200	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}		45	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}		32	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}		45	60	80	100	150	200	V
Maximum Average Forward Rectified Current at T_c = 100 °C	$I_{F(AV)}$	10.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	200.0							A
Maximum Instantaneous Forward Voltage at 10A	V_F	0.55		0.70	0.85		0.95		V

Maximum DC Reverse Current T_a = 25 °C° R

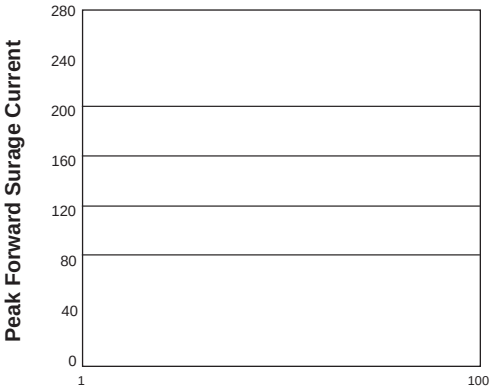
1 **Measured at 1 MHz and applied reverse voltage of 4 V D.C**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT



Lead Temperature

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



Number of cycles

FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

	bulk	
	ammo pack	1000PCS/1250PCS/Inner Box 10000PCS/12500PCS/Carton