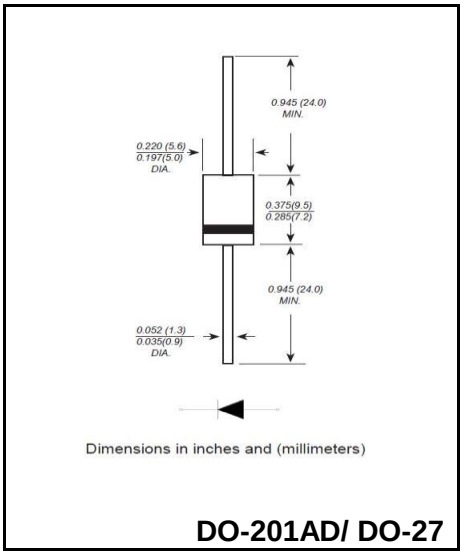
SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 V
Forward Current - 5 A



DO-201AD/ DO-27

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: 0.98 g /0.0345oz

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	SR520	SR540	SR560	SR580	SR5100	SR5150	SR5200	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current at T_c = 100 °C	$I_{F(AV)}$	5.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	120.0							A
Maximum Instantaneous Forward Voltage at 5.0A	V_F	0.55		0.70	0.85		0.95		V
Maximum DC Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a=125 °C	I_R	0.5 50			0.05 10				mA
Typical Thermal Resistance	$R_{\theta JA}$	55							℃/W
Operating junction temperature range	T_j	-55 ~ +150							℃
Storage Temperature Range	T_{stg}	-55 ~ +150							℃

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

SCHOTTKY BARRIER RECTIFIER

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

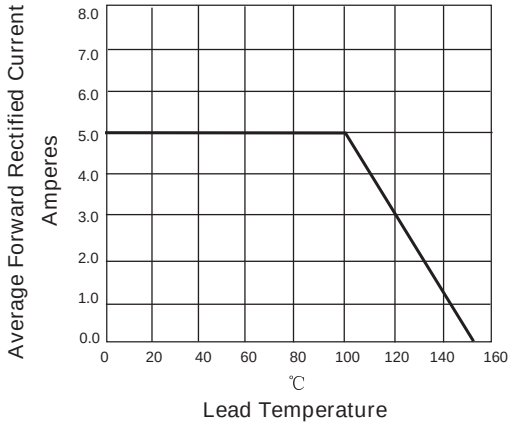


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

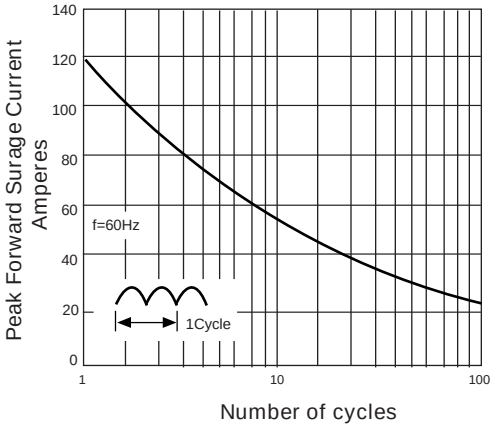


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

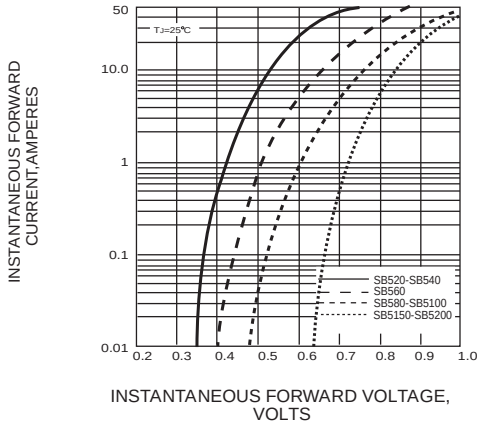


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS