



WEE Technology Company Limited

Schottky Barrier Rectifiers

SB5100L

VOLTAGE RANGE

100 Volts

CURRENT

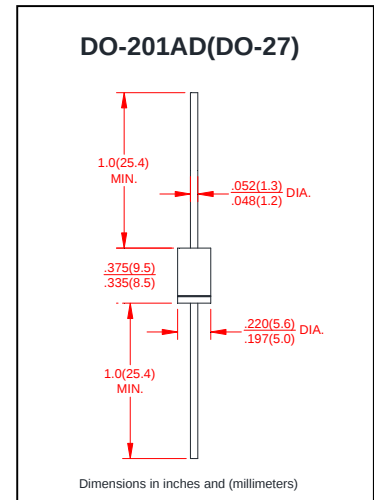
5.0 Ampere

FEATURES

- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High reliability

MECHANICAL DATA

- Case: DO-27, Mold plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Indicated by cathode band
- Lead: MIL-STD-202E, Method 208 guaranteed
- Mounting position: Any



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	SB5100L	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	Volts
Maximum RMS Voltage	V_{RMS}	70	Volts
Maximum DC Blocking Voltage	V_{DC}	100	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	5.0	Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150	Amps
Maximum Instantaneous Forward Voltage at 5.0A	V_F	0.64	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.5	mA
		50	
Typical Junction Capacitance (NOTE 1)	C_J	500	pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	10	°C/W
Operating Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2. Thermal Resistance from Junction to Ambient at .375"(9.5mm) lead length, P.C. board mounted.



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

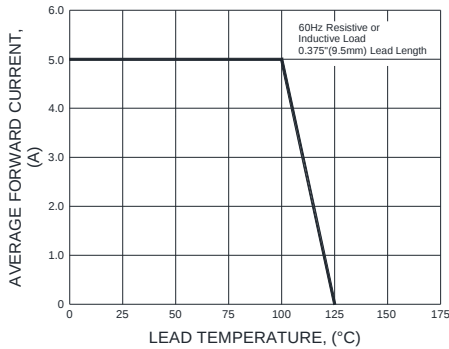


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

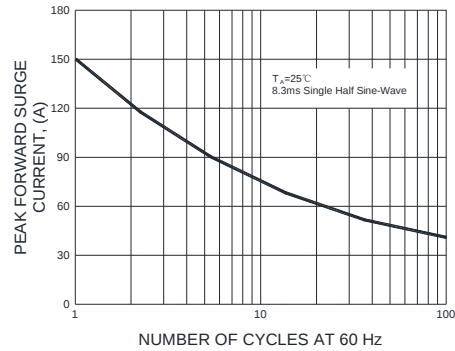


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

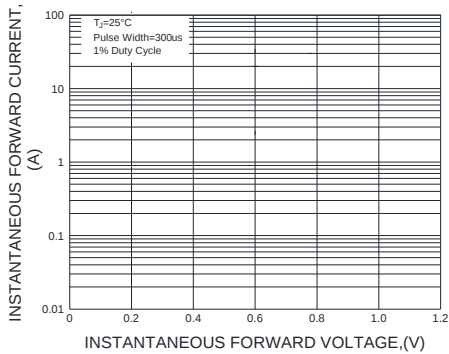
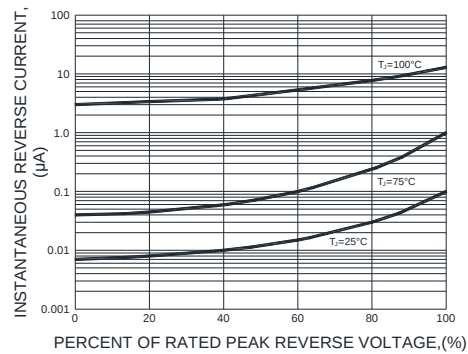


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.