WEE Technology Company Limited

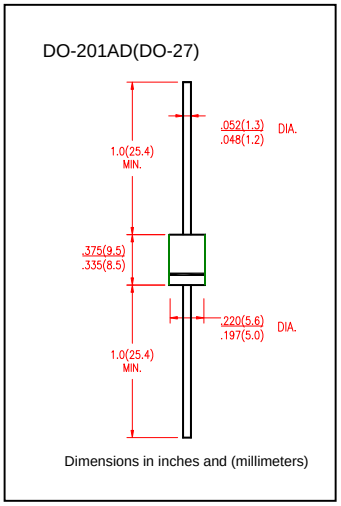
Schottky Barrier Rectifiers

SB3150 THRU SB3200

VOLTAGE RANGE 150 to 200 Volts
CURRENT 3.0 Ampere

FEATURES

- Fast switching speed
- Low forward voltage
- Low power high efficiency
- High surge capability
- High temperature soldering guaranteed
  250℃/10 seconds,0.373”(9.5mm)lead length



MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: solderarable per MIL-STD-202E
  method 208C
- Polarity: Color band denoted cathode end
- Mounting position: Any
- Weight: 0.045 ounce, 1.27 gram

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%

		SYMBOLS	SB3150	SB3200	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	150	200	Volts
Maximum RMS Voltage		V_{RMS}	105	140	Volts
Maximum DC Blocking Voltage		V_{DC}	150	200	Volts
Maximum Average Forward Rectified Current at $T_L$see figure 1 T_L =105℃		$I_{(AV)}$	3		Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	80		Amps
Maximum Instantaneous Forward Voltage @ 3.0A(Note1)		V_F	0.85		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	T_A = 25℃	I_R	0.5		mA
	T_A = 100℃		10		
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	55		℃/W
		$R_{\theta JL}$	12		
Operating Junction Temperature		T_J	150		℃
Storage Temperature Range		T_{STG}	(-55 to +150)		℃

Notes:
1. Pulse test:300 μ s pulse width,1%duty cycle

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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

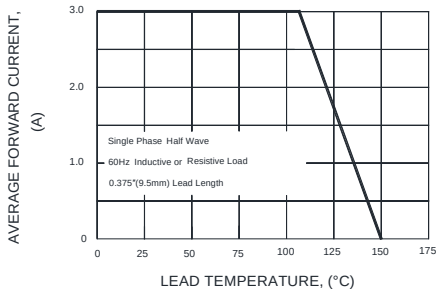


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

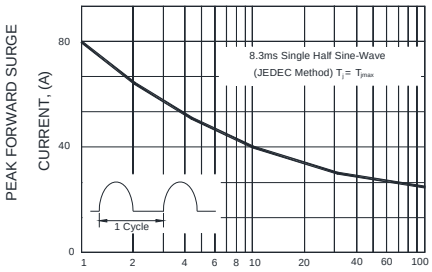


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

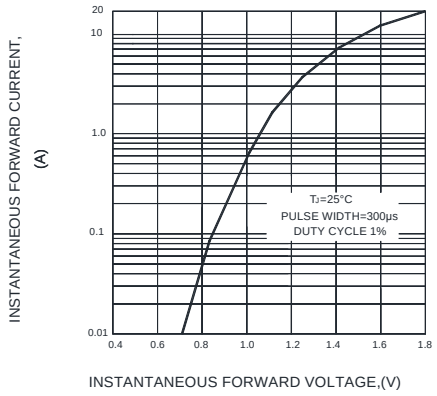


FIG.4-TYPICAL REVERSE CHARACTERISTICS

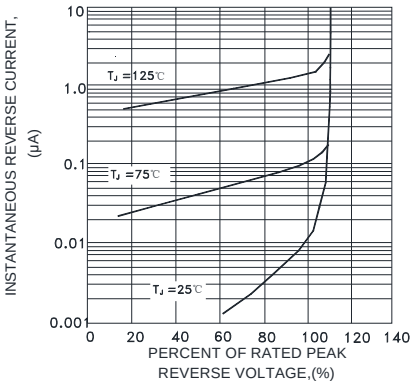
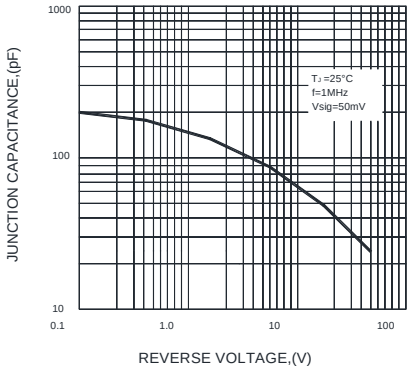


FIG.5-TYPICAL JUNCTION CAPACITANCE



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

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