VOLTAGERANGE:200 to 1300 Volts

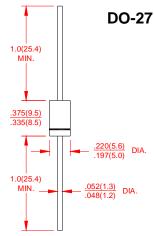
CURRENT: 3.0 Ampere

FEATURES

- Low coat construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.042 ounce, 1.19 grams



Dimensions in inches and (millimeters)

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%

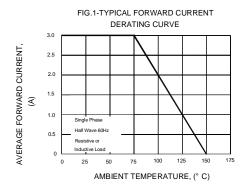
		SYMBOLS	BY251	BY252	BY253	BY254	BY255	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	200	400	600	800	1300	Volts
Maximum RMS Voltage		V_{RMS}	140	280	420	560	910	Volts
Maximum DC Blocking Voltage		V_{DC}	200	400	600	800	1300	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T _A = 75 °C		$I_{(AV)}$	3.0					Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I_{FSM}	125					Amps
Maximum Instantaneous Forward Voltage @ 3.0A		V_F	1.1					Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	$T_A = 25 ^{\circ}\text{C}$	$ m I_R$	5.0					μА
	$T_A = 100$ °C		50					
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at T_L =75 $^{\circ}$ C		$I_{R(AV)}$	500					μΑ
Typical Junction Capacitance (Note 1)		C_J	40					pF
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	30					°C/W
Operating Junction Temperature Range		T_{J}	-55 to +150					°C
Storage Temperature Range		T_{STG}	-55 to +150					°C

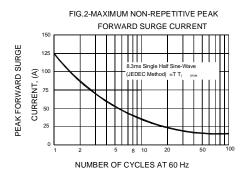
Notes:

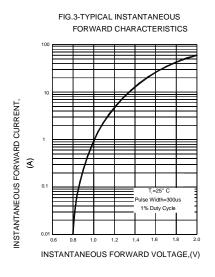
- 1. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.
- 2. Thermal Resistance from junction to ambient at .375"(9.5mm) lead length, P.C.board mounted.



RATING AND CHRACTERISTIC CURVES BY251 Thur BY255







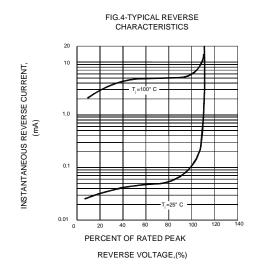


FIG.5-TYPICAL JUNCTION CAPACITANCE

