

AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

BY127 THRU BY133

VOLTAGE RANGE
CURRENT

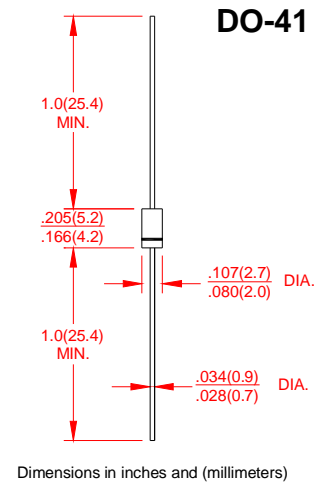
1250 to 1300 Volts
1.0 Ampere

FEATURES

- Low coat construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260 /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: 0.012 ounce, 0.33 grams



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	BY127	BY133	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1250	1300	Volts
Maximum RMS Voltage	V_{RMS}	875	910	Volts
Maximum DC Blocking Voltage	V_{DC}	1250	1300	Volts
Maximum Average Forward Rectified Current 0.375 (9.5mm) lead length at $T_A=25$	$I_{(AV)}$	1.0		Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	30		Amps
Maximum Instantaneous Forward Voltage @ 1.0A	V_F	1.1		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	I_R	$T_A = 25$	5.0	μA
		$T_A = 100$	50	
Maximum Full Load Reverse Current, full cycle average 0.375 (9.5mm)lead length at $T_L=75$	$I_{R(AV)}$	30		μA
Typical Junction Capacitance (Note 1)	C_J	15		pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50		/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.

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Electronic components supplier

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VOLTAGE RANGE 1250 to 1300 Volts
CURRENT 1.0 Ampere

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

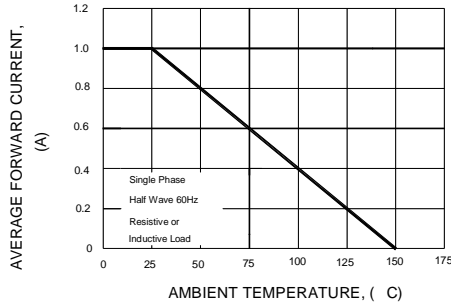


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

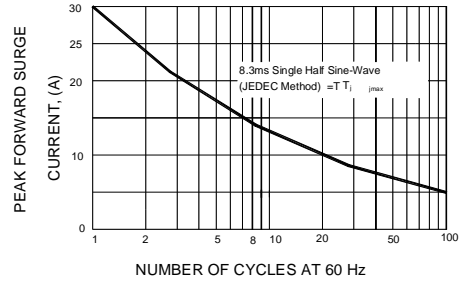


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

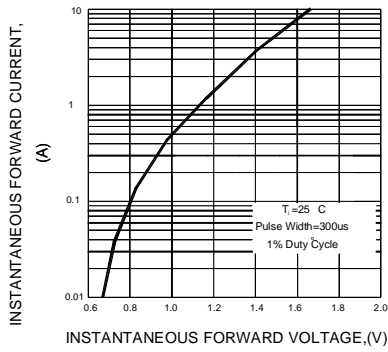


FIG.4-TYPICAL REVERSE CHARACTERISTICS

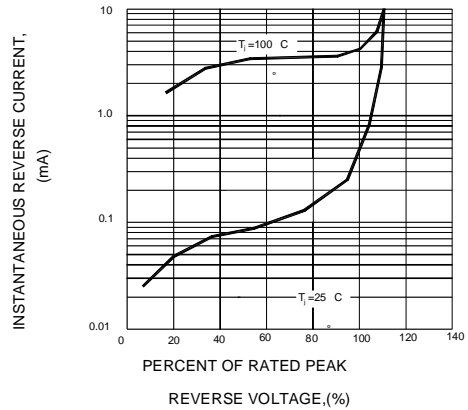


FIG.5-TYPICAL JUNCTION CAPACITANCE

