

AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

BY127 THRU BY133

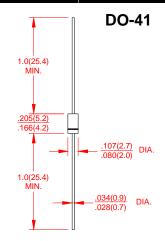
VOLTAGE RANGE CURRENT 1250 to 1300 Volts 1.0 Ampere

FEATURES

- Low coat construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°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: 0.012 ounce, 0.33 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	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 $^{\circ}$ C		$I_{(AV)}$	1.0		Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I_{FSM}	30	30	
Maximum Instantaneous Forward Voltage @ 1.0A		$V_{\rm F}$	1.	1.1	
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	$T_A = 25 ^{\circ}\text{C}$	$ I_R$	5.0		μА
	$T_A = 100^{\circ}C$		50	50	
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at T_L =75 $^{\circ}$ C		$I_{R(AV)}$	30	30	
Typical Junction Capacitance (Note 1)		C_J	1:	15	
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	50		°C/W
Operating Junction Temperature Range		T_{J}	-55 to	-55 to +150	
Storage Temperature Range		T_{STG}	-55 to	-55 to +150	

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.

Web Site: www.hkmic.com



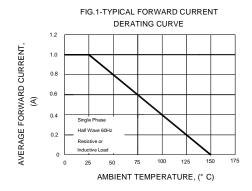
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VOLTAGE RANGE **CURRENT**

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RATING AND CHRACTERISTIC CURVES BY127 Thur BY133



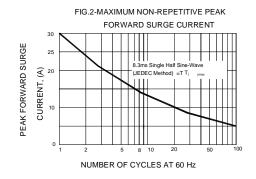
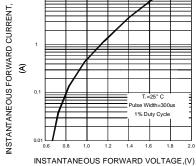




FIG.3-TYPICAL INSTANTANEOUS



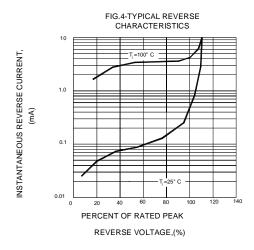
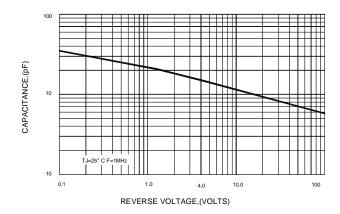


FIG.5-TYPICAL JUNCTION CAPACITANCE



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