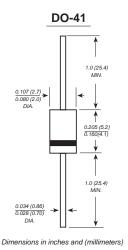
# **BY127 THRU BY133**

## GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 1250 to 1300 Volts Forward Current - 1.0 Ampere



#### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: JEDEC DO-41 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

**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 current derate by 20%.

	SYMBOLS	BY127	BY133	UNITS
Maximum repetitive peak reverse voltage	Vrrm	1250	1300	VOLTS
Maximum RMS voltage	VRMS	875	910	VOLTS
Maximum DC blocking voltage	VDC	1250	1300	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=75℃	l(AV)	1.0		Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	30.0		Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.1		Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	5.0 50.0		μА
Typical junction capacitance (NOTE 1)	Cı	15.0		pF
Typical thermal resistance (NOTE 2)	Rеja	50.0		°C/W
Operating junction and storage temperature range	Тл,Тѕтс	-65 to +175		°C

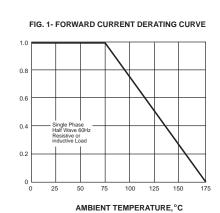
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

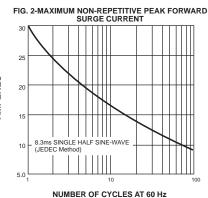


### **RATINGS AND CHARACTERISTIC CURVES BY127 THRU BY133**

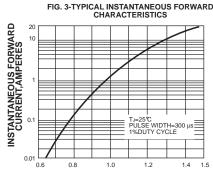


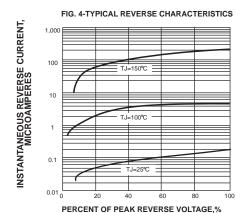




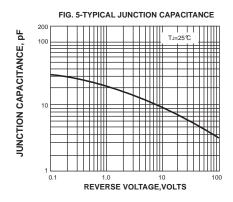


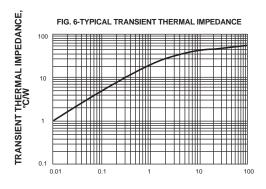
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INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.



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