

MINIATURE RECTIFIERS

REVERSE VOLTAGE 200 to 1300 Volts
FORWARD CURRENT -1.0 Amperes

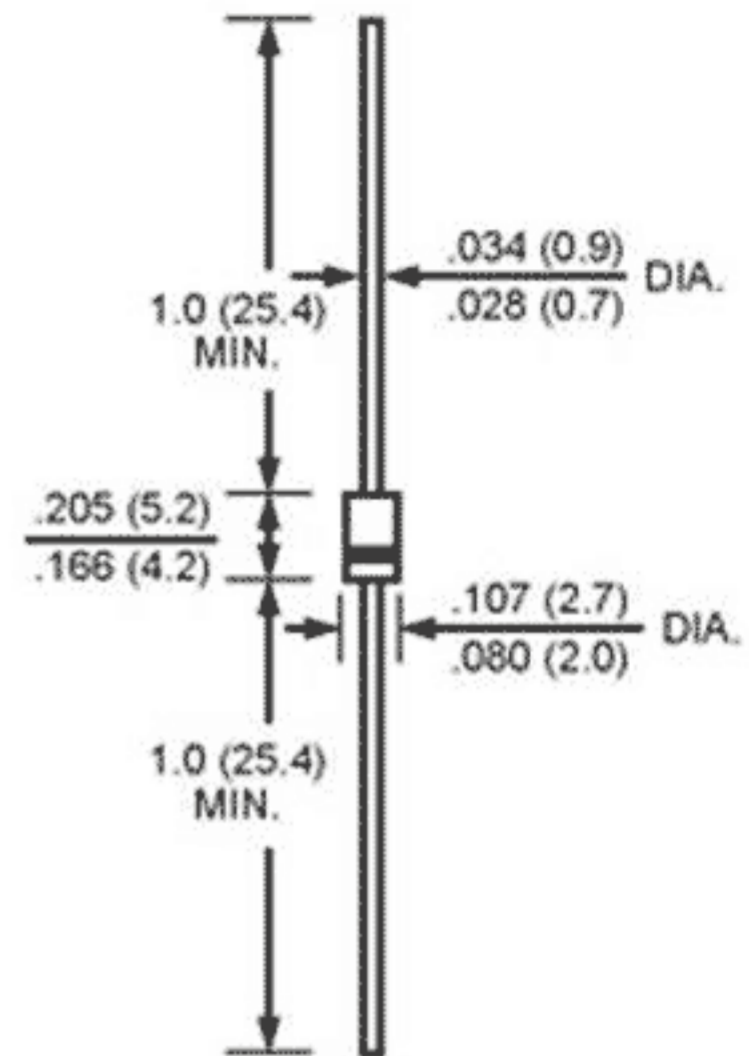
FEATURES

- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

- Case: JEDEC DO-41 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.012 ounces, 0.34 grams
- Mounting position: Any

DO-41



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	BY133	BY134	BY135	UNIT
Maximum Non-Recurrent Peak Reverse Voltage	V _{RSM}	1300	800	200	V
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1300	600	200	V
Maximum RMS Voltage	V _{RMS}	910	420	140	V
Maximum DC Blocking Voltage at T _A =150°C	V _{DC}	1300	600	200	V
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Lengths at T _A =75°C	I <sub(av)< sub=""></sub(av)<>	1.0			A
Peak Forward Surge Current 10ms single half sine-wave super imposed on rated load T _A =25°C	I _{FSM}	30			A
Maximum Instantaneous Forward Voltage at 1.0A T _A =25°C	V _F	1.1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A = 25 °C T _A =150°C	I _R	5.0 500			uA
Typical Junction Capacitance (Note 1)	C _J	15.0			pF
Typical Thermal Resistance (Note 2)	R _{θJA}	25.0			°C/W
Operating 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 of Ambient at .375" (9.5mm) Lead Lengths, P.C. Board Mounted.