

BY251 THRU BY255

GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 200 to 1300 Volts Forward Current - 3.0 Ampere

0.220 (5.6) 0.197(5.0) DIA. 1.0 (25.4) 0.375(9.5) 0.285(7.2)

Dimensions in inches and (millimeters)

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: 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body

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

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.10 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	BY251	BY252	BY253	BY254	BY255	UNITS
Maximum repetitive peak reverse voltage	Vrrm	200	400	600	800	1300	VOLTS
Maximum RMS voltage	VRMS	140	280	420	560	910	VOLTS
Maximum DC blocking voltage	VDC	200	400	600	800	1300	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=75℃	l(AV)	3.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lFSM	150					Amps
Maximum instantaneous forward voltage at 3.0A	VF	1.1					Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR	10.0 500					uA
Typical junction capacitance (NOTE 1)	Cı	30.0					pF
Typical thermal resistance (NOTE 2)	RqJA	20.0					°C/W
Operating junction and storage temperature range	ТЈ,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 BY251 THRU BY255













