BY251 thru BY255

MEDIUM CURRENT PLASTIC RECTIFIER





VOLTAGE RANGE-200 TO 1300 Volts **CURRENT -3.0 Amperes**

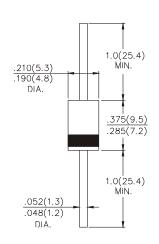
FEATURE

- · High surge current capability
- · Plastic package has underwriters laboratory Flammability classification 94V-O
- · Low leakage
- · Void-free molded in DO-201AD plastic package
- · High current operation of 3 Amperse at TA=95°C with no thermal runaway
- · Exceeds environmental standard of MIL-STD-19500/228

MECHANICAL DATA

- · Case: JEDEC D0-201AD molded plastic
- · Trminals:plated axials leads, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode
- · Weight: 0.04 ounce, 1.1 gram
- · Mounting Position: Any

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

ror capacitive load, derate current by 20%.							
		BY251	BY252	BY253	BY254	BY255	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	400	600	800	1300	٧
Maximum RMS Voltage	Vrms	140	280	420	560	910	٧
Maximum DC Blocking Voltage	VDC	200	400	600	800	1300	٧
Maximum Average Forward Rectified Current .375", (9.5mm) lead lengths at T _A =95°C	I _(AV)	3.0					А
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	100.0					A
Maximum Instantaneous Forward Voltage T_J =25°C at $3.0AT_J$ =100°C	VF	1.1 1.0					٧
Maximum DC Reverse Current T _A =25°C at Rated DC Blocking Voltage T _A =100°C	I _R	5.0 500					μΑ
Typical Junction Capacitance (Note 2)T _J = 25°C	Cı	28.0					pF
Typical Reverse Recovery Time (Note 3)	Trr	2.5					μS
Typical Thermal Resistance (Note1)	T θ JA	15.0					°C / W
Operating Junction Temperature Range	Tı	-55 to +150					°C
Storage Temperature Range	Тѕтс	-55 to +150					°C

Thermal Resistance from Junction to applied at ambient .375" (9.5mm) lead lengths, P.C. Board mounted.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. Reverse Recovery Test Conditions : I=0.5A, IR=1.0A, Irr=0.25A.

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MEDIUM CURRENT PLASTIC RECTIFIER



RATING AND CHARACTERISTICS CURVES BY251 THRU BY255

Fig.1 - FORWARD CURRENT DERATING CURVE

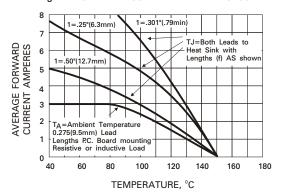


Fig.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

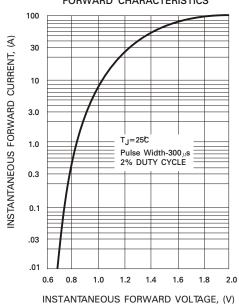


Fig.2 - MAXIMUM PEAK FORWARD SURGE CURRENT

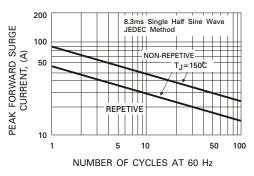


Fig.4 - TYPICAL JUNCTION CAPACITANCE

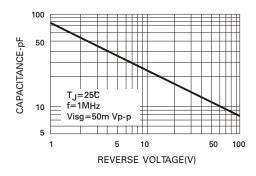


Fig.5 - TYPICAL REVERSE CHARACTERISTICS

