

BY251 THRU BY255

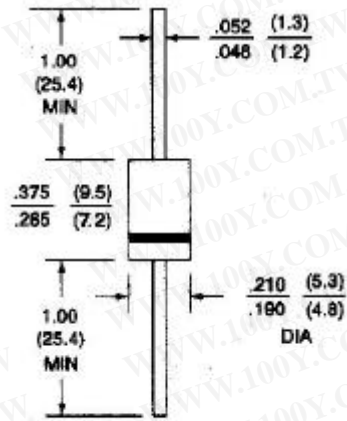
MEDIUM CURRENT PLASTIC RECTIFIER

VOLTAGE - 200 to 1300 Volts CURRENT - 3.0 Amperes

FEATURES

- 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 Amperes at $T_A=95$ with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228

DO-201AD



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: JEDEC DO-201AD Molded plastic

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

Method 2026

Polarity: Color band denotes cathode

Mounting Position: Any

Weight: 0.04 ounce, 1.1 gram

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	SYMBOLS	BY251	BY252	BY253	BY254	BY255	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1300	Volts
Maximum RMS Voltage	V_{RMS}	140	280	420	560	910	Volts
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1300	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at $T_A=95$	$I_{(AV)}$	3.0					Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	100.0					Amps
Maximum Instantaneous Forward Voltage $T_J=25$ at 3.0A $T_J=100$	V_F	1.1 1.0					Volts Volts
Maximum DC Reverse Current $T_A=25$ at Rated DC Blocking Voltage $T_A=100$	I_R	5.0 1000					A A
Typical Junction capacitance (Note 2) $T_J=25$	C_J	40					pF
Typical Reverse Recovery Time (Note 3)	T_{RR}	2.5					A
Typical Thermal Resistance (Note 1)	R_{JA}	15.0					/W
Operating Junction Temperature Range	T_J	-50 to +150					
Storage Temperature Range	T_{STG}	-50 to +150					

NOTES:

1. Thermal Resistance From Junction to applied at Ambient 0.375"(9.5mm) lead length P.C.Board mounted.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$.

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RATING AND CHARACTERISTIC CURVES BY251 THRU BY255

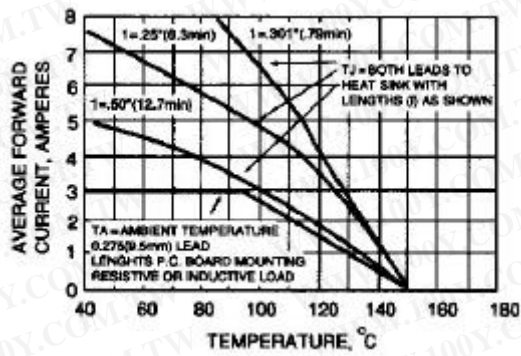


Fig. 1-FORWARD CURRENT DERATING CURVE

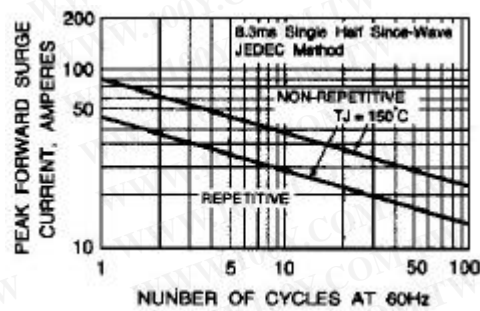


Fig. 2-MAXIMUM PEAK FORWARD SURGE CURRENT

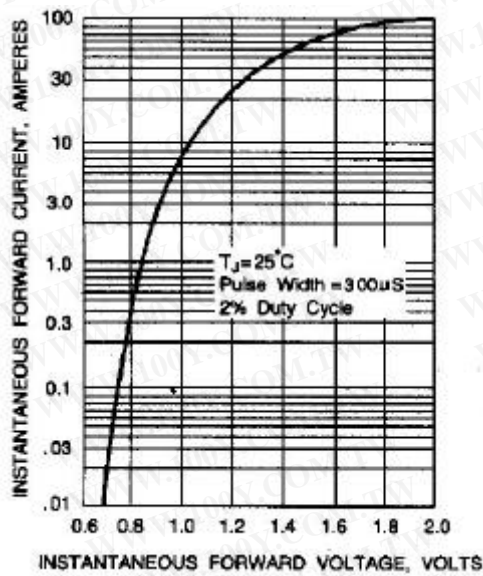


Fig. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

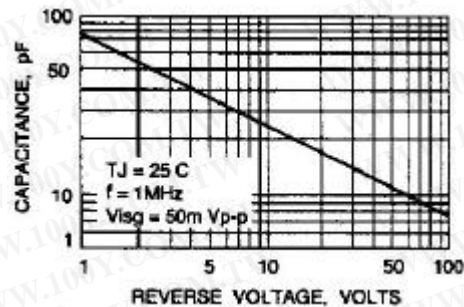


Fig. 4-TYPICAL JUNCTION CHARACTERISTICS

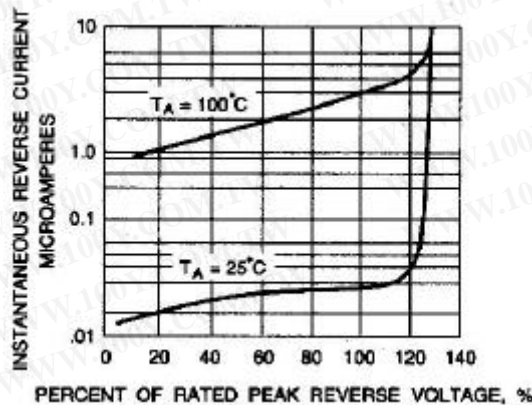


Fig. 5-TYPICAL REVERSE CHARACTERISTICS