

BY251 THRU BY255

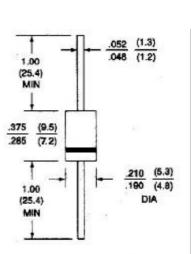
MEDIUM CURRENT PLASTIC RECTIFIER VOLTAGE - 200 to 1300 Volts CURRENT - 3.0 Amperes

FEATURES

- Exce 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 ¢J with no thermal runaway
- eds environmental standards of MIL-S-19500/228

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



DO-201AD

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J 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
V _{RRM}	200	400	600	800	1300	Volts
V _{RMS}	140	280	420	560	910	Volts
V _{DC}	200	400	600	800	1300	Volts
I _(AV)	3.0				Amps	
I _{FSM}	100.0				Amps	
VF	1.1					Volts
	1.0					Volts
I _R	I _R 5.0					£g A
	1000					£g A
CJ	40					₽F
T _{RR}	2.5					£g A
R £KJA	15.0					¢J/W
TJ	-50 to +150				¢J	
T _{STG}	-50 to +150				¢J	
	$\begin{tabular}{ c c c c } \hline V_{RRM} & V_{RMS} & V_{DC} & \\ \hline V_{I(AV)} & & \\ \hline I_{FSM} & & \\ \hline V_{F} & & \\ \hline V_{F} & & \\ \hline I_{R} & & \\ \hline C_{J} & & \\ \hline T_{RR} & & \\ \hline R \ \pounds K \ J A & \\ \hline T_{J} & & \\ \hline \end{tabular}$	$\begin{tabular}{ c c c c c } \hline V_{RRM} & 200 \\ \hline V_{RMS} & 140 \\ \hline V_{DC} & 200 \\ \hline I_{(AV)} & & \\ \hline \hline & & \\ \hline \hline & & \\ \hline & & \\ \hline \hline \\ \hline \hline & & \\ \hline \hline \hline \\ \hline \hline & & \\ \hline \hline \hline \hline$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

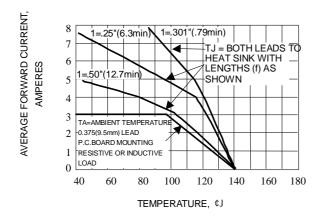
NOTES:

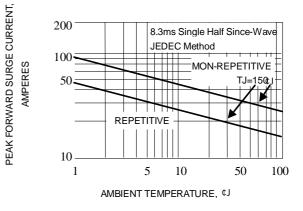
1. Thermal Resistance From Junction to applied at Ambient 0.375" (9.5mm) lead length P.C.Board mounted.

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, Irr=0.25A.

RATING AND CHARACTERISTIC CURVES BY251 THRU BY255







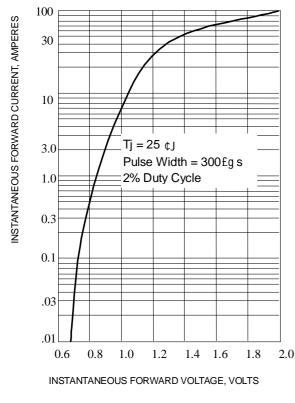
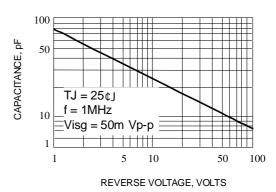




Fig. 2-MAXIMUM PEAK FORWARD SURGE CURRENT





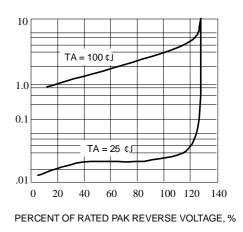


Fig. 5-TYPICAL REVERSE CHARACTERISTICS