



MEDIUM CURRENT PLASTIC RECTIFIER

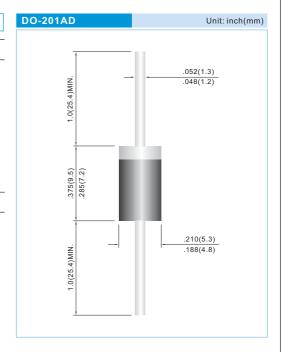
VOLTAGE 200 to 1300 Volts CURRENT 3.0 Amperes

FEATURES

- · High current capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O
- Void-free Plastic in DO-201AD package.
- Exceeds environmental standards of MIL-S-19500/228
- Low leakage .
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: Molded plastic, DO-201AD
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Mounting Position: Any
- Weight: 0.0395 ounce, 1.122 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

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PARAMETER	SYMBOL	BY251	BY252	BY253	BY254	BY255	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	400	600	800	1300	V
Maximum RMS Voltage	V _{RMS}	140	280	420	560	910	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1300	V
Maximum Average Forward Current .375"(9.5mm) lead length	I _{F(AV)}		А				
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}		А				
Maximum Forward Voltage at 3.0A	V _F		V				
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltage T _J =100°C	I _R	5.0 1000					μА
Typical Junction capacitance (Note 1)	C _J	40					pF
Typical Thermal Resistance(Note 2)	$R_{\theta JA}$	15					°C/W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150					°C

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 2. Thermal resistance from junction to ambient.
- 3.Reverse Recovery Test Conditions:I_F=0.5A , I_R=1.0A ,Irr=0.25A





RATING AND CHARACTERISTIC CURVES

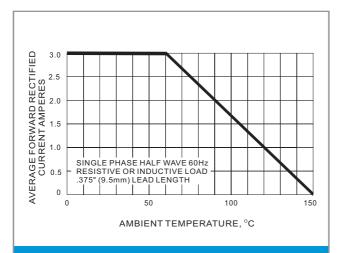


FIG.1 FORWARD CURRENT DERATING CURVE

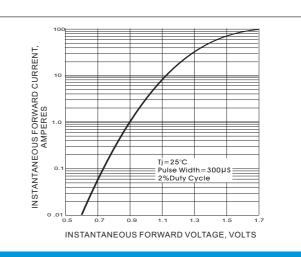


FIG.2 TYPICAL FORWARD CHARACTERISTICS

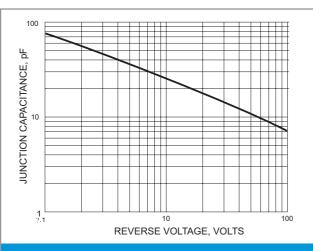


FIG.3 TYPICAL JUNCTION CAPACITANCE

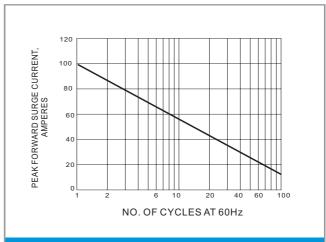


Fig.4 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT

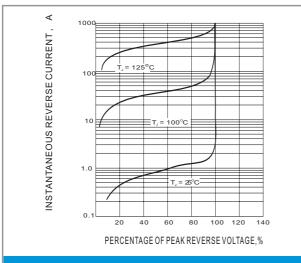


Fig.5-TYPICAL REVERSE CHARACTERISTIC



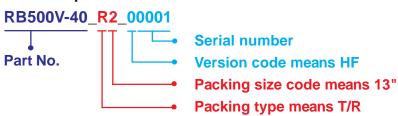


Part No_packing code_Version

BY251_AY_00001 BY251_AY_10001 BY251_B0_00001 BY251_B0_10001 BY251_R2_00001

BY251_R2_10001

For example:



Packing Code XX					Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code			
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	Т	26mm	X						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





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