



GLASS PASSIVATED JUNCTION SUPERFAST RECOVERY RECTIFIERS

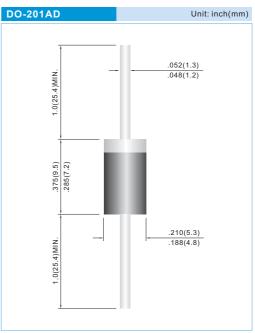
VOLTAGE 50 to 600 Volts CURRENT 5.0 Amperes

FEATURES

- Superfast recovery times-epitaxial construction.
- · Low forward voltage, high current capability.
- Exceeds environmental standards of MIL-S-19500/228.
- · Hermetically sealed.
- Low leakage.
- · High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Lead free in compliance with EU RoHS 2011/65/EU directive



- 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 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	ER500	ER501	ER501A	ER502	ER503	ER504	ER506	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	V
Maximum RMS Voltage		35	70	105	140	210	280	420	٧
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	٧
Maximum Average Forward Current .375"(9.5mm) lead length at T_A =55°C	I _{F(AV)}	5.0							
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	150							Α
Maximum Forward Voltage at 5.0A	V _F	0.95			1.25		1.70	٧	
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =125°C	I _R	1.0 300							μА
Maximum Reverse Recovery Time(Note 1)	t _{rr}	35							ns
Typical Junction capacitance (Note 2)	CJ	65							pF
Typical Junction Resistance(Note 3)	R _{eJA}	20							°C /
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150							°C

NOTES:1. Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{rr} =.25A

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted





RATING AND CHARACTERISTIC CURVES

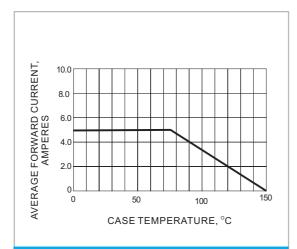


Fig.1-FORWARD CURRENT DERATING CURVE

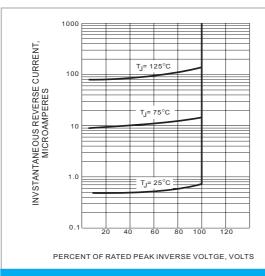


Fig.3-TYPICAL REVERSE CHARACTERISTICS

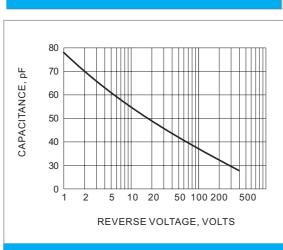


Fig.5-TYPICAL JUNCTION CAPACITANCE

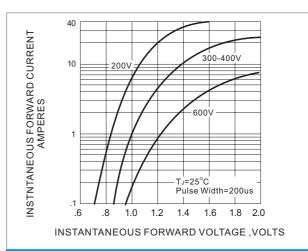


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

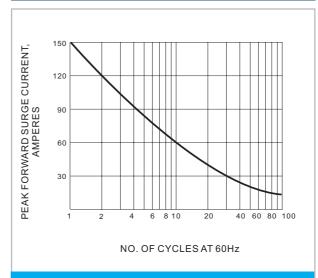


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT





Part No_packing code_Version

ER500_AY_00001

ER500_AY_10001

ER500_B0_00001

ER500_B0_10001

ER500_R2_00001

ER500_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)	Α	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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