

GLASS PASSIVATED JUNCTION SUPERFAST RECOVERY RECTIFIERS



• 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		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	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =55°C	I _{F(AV)}	5.0					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{fsm}	150					A		
Maximum Forward Voltage at 5.0A	V _F	0.95		1.	25	1.70	V		
Maximum DC Reverse Current Tj=25°C at Rated DC Blocking Voltage Tj=125°C	I _R	1.0 300				μA			
Maximum Reverse Recovery Time(Note 1)	t _{rr}	35			ns				
Typical Junction capacitance (Note 2)	C	65				рF			
Typical Junction Resistance(Note 3)	R _{eja}	20				°C / W			
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



PERCENT OF RATED PEAK INVERSE VOLTGE, VOLTS

Fig.3-TYPICAL REVERSE CHARACTERISTICS





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 :

RB500V-40_R2_00001



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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