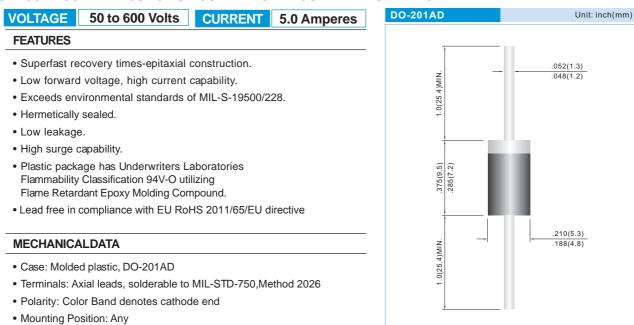


#### **GLASS PASSIVATED JUNCTION SUPERFAST RECOVERY RECTIFIERS**



• 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 <sub>A</sub> =55°C	I <sub>F(AV)</sub>	5.0					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I <sub>fsm</sub>	150					A		
Maximum Forward Voltage at 5.0A	V <sub>F</sub>	0.95		1.	25	1.70	V		
Maximum DC Reverse Current Tj=25°C at Rated DC Blocking Voltage Tj=125°C	I <sub>R</sub>	1.0 300				μA			
Maximum Reverse Recovery Time(Note 1)	t <sub>rr</sub>	35			ns				
Typical Junction capacitance (Note 2)	C	65				рF			
Typical Junction Resistance(Note 3)	R <sub>eja</sub>	20				°C / W			
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>stg</sub>	-55 to +150					°C		

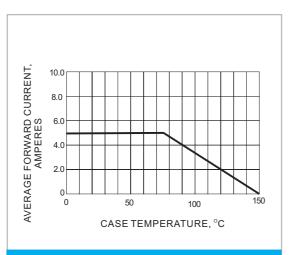
NOTES:1. Reverse Recovery Test Conditions: I<sub>F</sub>=.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=.25A

2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC

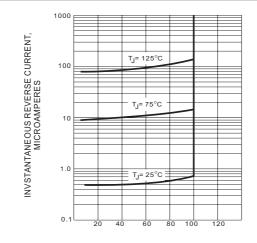
3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted



RATING AND CHARACTERISTIC CURVES

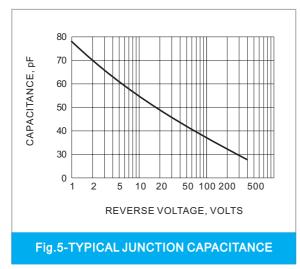


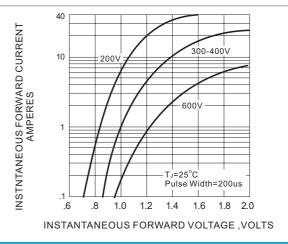
### Fig.1-FORWARD CURRENT DERATING CURVE



PERCENT OF RATED PEAK INVERSE VOLTGE, VOLTS

Fig.3-TYPICAL REVERSE CHARACTERISTICS





#### Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

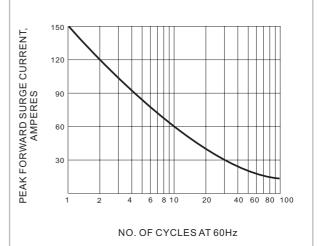


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT





### 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 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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					





# Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

### **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by Panjit manufacturer:

Other Similar products are found below :

 70HFR40
 FR105 R0
 RL252-TP
 DLA11C-TR-E
 DSA17G
 150KR30A
 1N5397
 1N4002G
 1N4005-TR
 UFS120Je3/TR13
 JANS1N6640US

 481235F
 RRE02VS6SGTR
 067907F
 MS306
 70HF40
 T110HF60
 T85HFL60S02
 US2JFL-TP
 A1N5404G-G
 CRS04(T5L,TEMQ)

 CRS12(T5L,TEMQ)
 ACGRB207-HF
 CLH07(TE16L,Q)
 CLH03(TE16L,Q)
 ACGRC307-HF
 ACEFC304-HF
 NTE6356
 NTE6359
 85HFR60

 40HFR60
 70HF120
 85HFR80
 D126A45C
 SCF7500
 D251N08B
 SCHJ22.5K
 SM100
 SCPA2
 SDHD5K
 VS-12FL100S10
 ACGRA4001 

 HF
 ACURA107-HF
 D1821SH45T
 PR
 D1251S45T
 NTE6358
 NTE5850
 NTE5837
 NTE5892