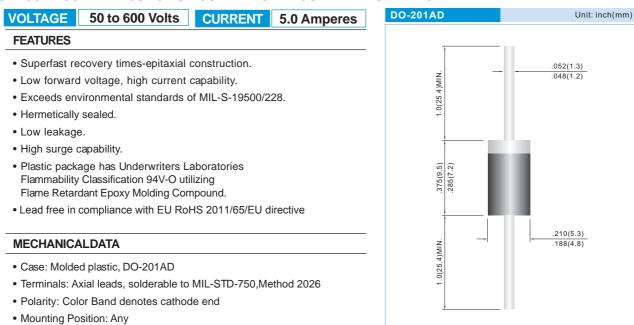


### **GLASS PASSIVATED JUNCTION SUPERFAST RECOVERY RECTIFIERS**



• 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	

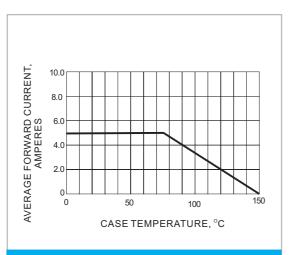
NOTES:1. Reverse Recovery Test Conditions: I<sub>F</sub>=.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=.25A

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

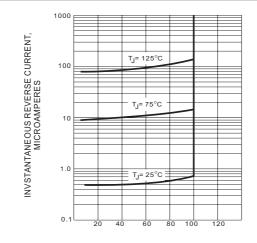
3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted



RATING AND CHARACTERISTIC CURVES

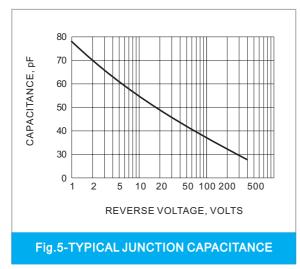


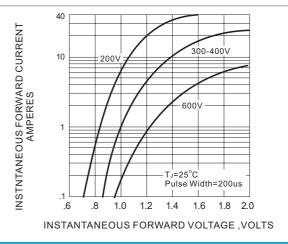
### Fig.1-FORWARD CURRENT DERATING CURVE



PERCENT OF RATED PEAK INVERSE VOLTGE, VOLTS

Fig.3-TYPICAL REVERSE CHARACTERISTICS





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

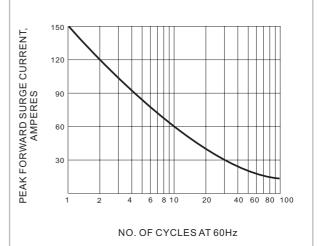


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT





### Part No\_packing code\_Version

### For example :

### RB500V-40\_<mark>R2\_00001</mark>



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						





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