

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	ER200	ER201	ER201A	ER202	ER203	ER204	ER206	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	50	100	150	200	300	400	600	v
Maximum RMS Voltage	V _{rms}	35	70	105	140	210	280	420	v
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	v
Maximum Average Forward Current	I _{F(AV)}	2						А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	50					А		
Aaximum Forward Voltage at 2A		0.95 1.25 1.			1.7	V			
Maximum DC Reverse Current at Rated DC T_j=25°C Blocking Voltage T_j=125°C	I _R	1 200						μA	
Maximum Reverse Recovery Time (Note 1)	t _{rr}				35				ns
Typical Junction Capacitance (Note 2)	C				22				pF
Typical Junction Resistance (Note 3)	$R_{_{\theta JA}}$	40						°C / W	
Operating and Storage Temperature Range	T_,T _{stg}	-55 to +150						°C	

NOTES:1. Reverse Recovery Test Conditions : I_F=0.5A, I_R=-1A, I_{rr}=-0.25A

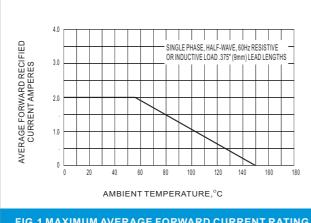
2. Measured at 1 MHz and applied reverse voltage of 4 VDC

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



ER200~ER206

RATING AND CHARACTERISTIC CURVES



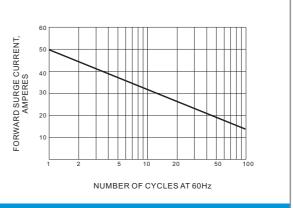
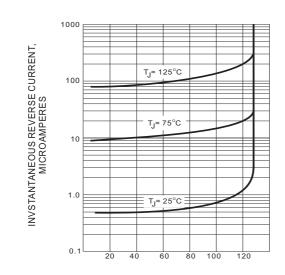
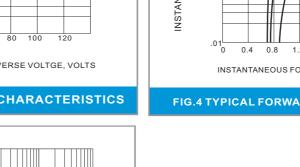


FIG.1 MAXIMUM AVERAGE FORWARD CURRENT RATING



PERCENT OF RATED PEAK INVERSE VOLTGE, VOLTS

FIG.3 TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF 40 2 0.1 1000 0.5 5 10 20 50 100 200 500 1 REVERSE VOLTAGE, VOLTS FIG.5 TYPICAL JUNCTION CAPACITANCE

FIG.2 MAXIMUM NON-REPEITIVE SURGE CURRENT

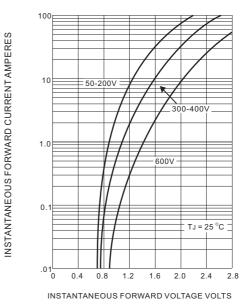
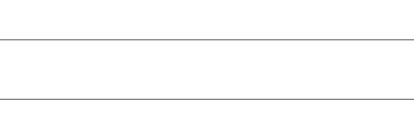


FIG.4 TYPICAL FORWARD CHARACTERISTICS





Part No_packing code_Version

ER200~ER206

ER200_AY_00001
ER200_AY_10001
ER200_B0_00001
ER200_B0_10001
ER200_R2_00001
ER200_R2_10001

For example :

RB500V-40_R2_00001



- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

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				





ER200~ER206

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