

• Weight: 0.0032 ounces, 0.092 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	ER1A	ER1B	ER1C	ER1D	ER1E	ER1G	ER1J	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 at T _L =100°C	I _{F(AV)}	1			A				
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30			A				
Maximum Forward Voltage at 1A	V _F	0.95 1.25 1.7			1.7	V			
$\begin{array}{llllllllllllllllllllllllllllllllllll$		1 150					μA		
Maximum Reverse Recovery Time (Note 1)		35					ns		
Typical Junction Capacitance (Note 2)		10					рF		
Maximum Thermal Resistance (Note 3)	R _{ejl}	34				°C / W			
Operating Junction and Storage Temperature Range	T _J ,T _{stg}	-55 to +150					°C		

NOTES :

1.Reverse Recovery Tset Conditions : $I_F=0.5A$, $I_R=-1A$,Irr=-0.25A2.Measured at 1MHz and applied reverse voltage of 4 volts.

3.8 mm²(0.013 mm thick) land areas.

FORWARD SURGE CURRENT, AMPERES pk (HALF-SING WAVE)

PAN

SEMI CONDUCTOR

ER1A~ER1J

18 16

14

12

10 8.0 6.0

4.0

2.0

0_

1000

100

10

1.0

0.1

INVSTANTANEOUS REVERSE CURRENT, MICROAMPERES

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CAPACITANCE,

RATING AND CHARACTERISTIC CURVES

Tj= 25°C f= 1.0MHz

Vsig = 50mVp-p

10

REVERSE VOLTAGE, VOLTS

FIG.1 TYPICAL JUNCTION CAPACITANCE

T_J= 125°C

 $T_J = 75^{\circ}C$

 $T_J = 25^{\circ}C$

60 80 100

PERCENT OF RATED PEAK INVERSE VOLTGE, VOLTS

FIG.3 TYPICAL REVERSE CHARACTERISTICS

6 8 10

FIG.5 MAXIMUM NON-REPEITIVE SURGE CURRENT

NUMBER OF CYCLES AT 60Hz

4

20

40 60 80 100

120

40

20

2

1

AVERAGE FORWARD RECIFIED CURRENT AMPERES

1.5

1.0

0.5

0 20

10

1.0

.1

.01

.001

0.4

0.6 0.8 1.0

INSTANTANEOUS FORWARD CURRENT, AMPERES - SINGLE PHASE, HALF-WAVE, 60Hz RESISTIVE OR INDUCTIVE LOAD P.C.B MOUNTED ON 0.3 x 0.3" (8.0 x 8.0 mm)COPPER PAD AREAS

80 100

FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING

50-200V

LEAD TEMPERATURE,°C

120 140

300-400V

600V

1.2

INSTANTANEOUS FORWARD VOLTAGE VOLTS

FIG.4 TYPICAL FORWARD CHARACTERISTICS

 $T_J = 25^{\circ}C$

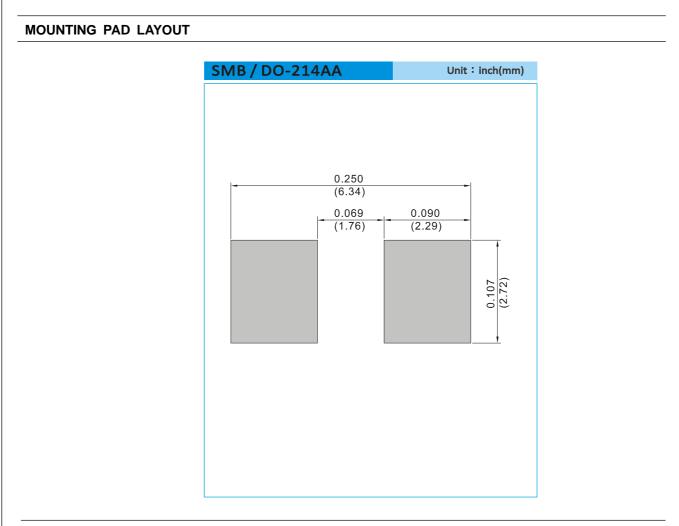
1.4 1.6 1.8

160

180

40 60





ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel



Part No_packing code_Version

ER1A_R1_00001 ER1A_R2_00001

For example :

RB500V-40_R2_00001

Part No.

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						



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