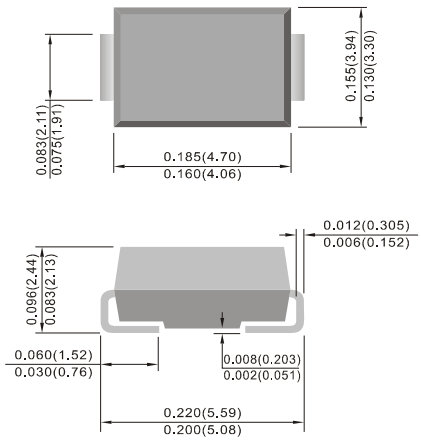
ER2A~ER2J

SURFACE MOUNT RECTIFIER

VOLTAGE 50 to 600 Volt **CURRENT** 2 Ampere

SMB / DO-214AA Unit : inch(mm)

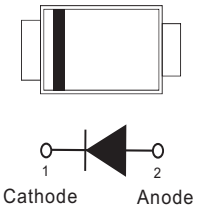


FEATURES

- For surface mounted applications in order to optimize board space
- High temperature metallurgically bonded-no compression contacts as found in other diode-constructed rectifiers
- Glass passivated junction
- Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 16mm tape (EIA-481)
- 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	ER2A	ER2B	ER2C	ER2D	ER2E	ER2G	ER2J	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 T_L=110°C	$I_{F(AV)}$	2							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50							A
Maximum Forward Voltage at 2A	V_F	0.95				1.25		1.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_J=25°C T_J=100°C	I_R	1 150							μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	35							ns
Typical Junction Capacitance (Note 2)	C_J	25							pF
Typical Thermal Resistance (Note 3)	$R_{\theta JL}$	20							°C / W
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	15							°C / W
Operating Junction and Storage Temperature Range	T_J,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 V_r = 4 volts.
3. Mounted on a FR4 PCB, single-sided copper, with 100cm^2 copper pad area.

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RATING AND CHARACTERISTIC CURVES

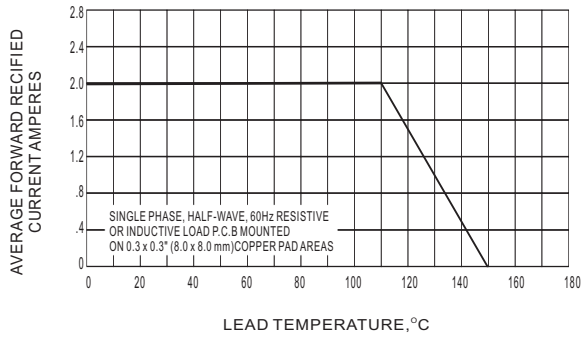

FIG.1 MAXIMUM AVERAGE FORWARD CURRENT RATING

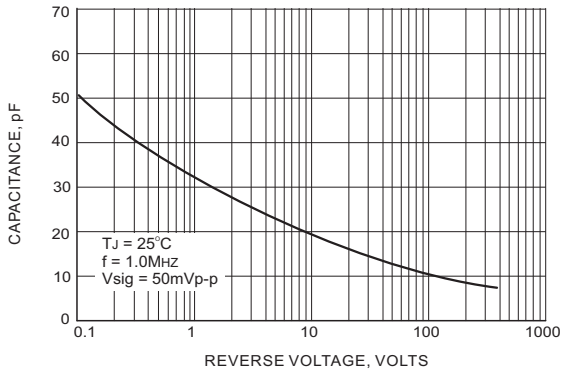

FIG.2 TYPICAL JUNCTION CAPACITANCE

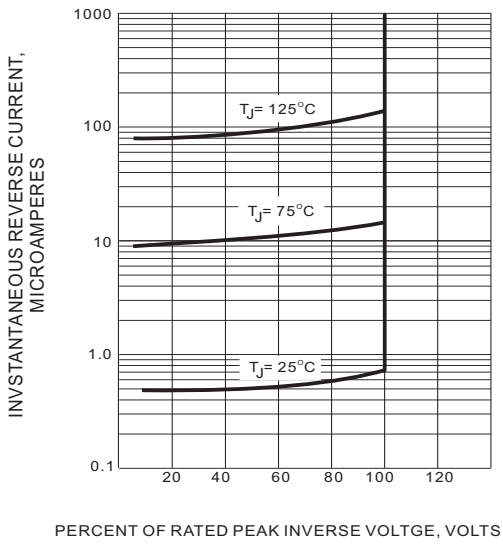

FIG.3 TYPICAL REVERSE CHARACTERISTICS

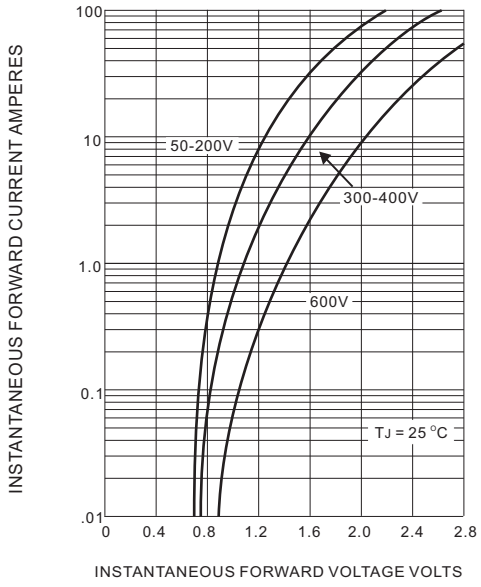

FIG.4 TYPICAL FORWARD CHARACTERISTICS

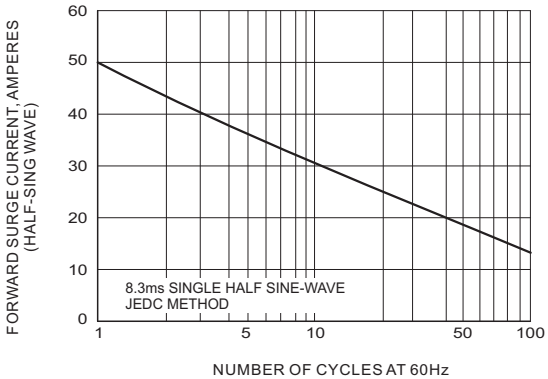

FIG.5 MAXIMUM NON-REPEITIVE SURGE CURRENT

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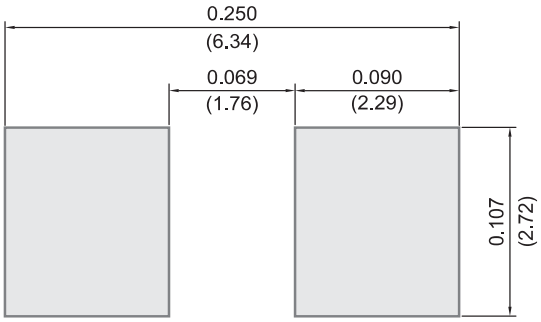
MOUNTING PAD LAYOUT

SMB Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 3K per 13" plastic Reel

  T/R - 0.8K per 7" plastic Reel

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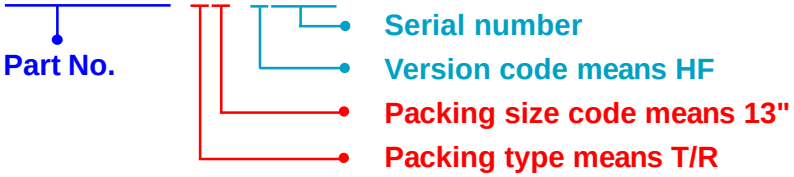
Part No_packing code_Version

ER2A_R1_00001

ER2A_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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