ER2A THRU ER2J



SURFACE MOUNT SUPERFAST RECOVERY RECTIFIER

REVERSE VOLTAGE: 50 to 600 VOLTS http://www.njzrg.com
FORWARD CURRENT: 2.0 AMPERE

FEATURES

· For surface mounted applications

· Low profile package

· Built-in strain relief

· Easy pick and place

· Superfast recovery times for high efficiency

 $\cdot \ Plastic \ package \ has \ Underwriters \ Laboratory$

Flammability Classification 94V-O

· High temperature soldering : 260°C /10 seconds at terminals

MECHANICAL DATA

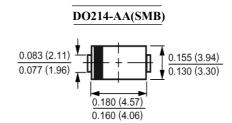
Case: Molded plastic, DO-214AA(SMB)

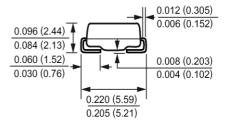
Terminals: Solder plated, solderable per MIL-STD-750,

method 2026 guaranteed

Polarity: Color band denotes cathode end Packaging: 12mm tape per EIA STD RS-481

Weight: 0.003 ounce, 0.093 gram





Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	ER2A	ER2B	ER2C	ER2D	ER2E	ER2G	ER2J	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current at T_L =110	I _(AV)	2.0							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM}	I _{FSM} 50							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 2.0A	$V_{\rm F}$	0.95 1.25 1.7				1.70	Volts		
Maximum Reverse Current at T _A =25	T	5.0							4
at Rated DC Blocking Voltage T _A =100	I_R			150					μАтр
Typical Junction Capacitance (Note 1)	C_{J}	25							pF
Typical Thermal Resistance (Note 2)	$R_{ heta JL}$	20							/W
Maximum Reverse Recovery Time (Note 3)	T _{RR}	35 50						nS	
Operating Junction Temperature Range	T_{J}	-55 to +150							
Storage Temperature Range	Tstg	-55 to +150							

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal resistance from junction to lead mounted on P.C.B. with 0.3 x 0.3" (8.0 x 8.0mm) copper pad areas
- 3- Reverse Recovery Test Conditions : I_F =.5A , I_R =1A , I_{RR} =.25A.



RATINGS AND CHARACTERISTIC CURVES

http://www.njzrg.com

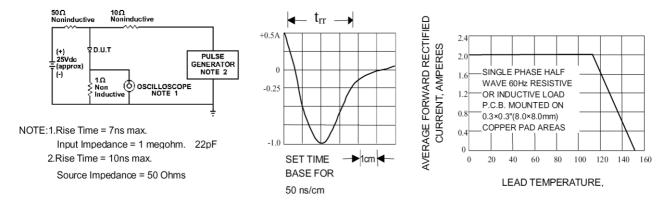


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

Fig. 2-MAXIMUM AVERAGE FORWARD CURRENT RATING

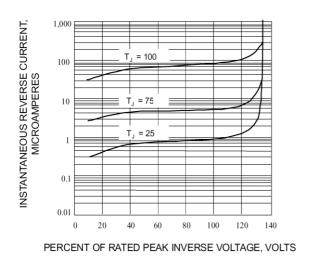


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

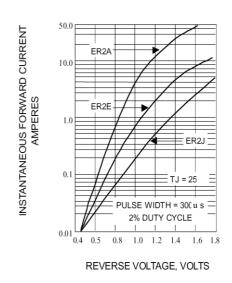


Fig. 4-TYPICAL FORWARD CHARACTERISTICS



Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

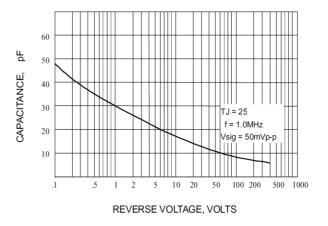


Fig. 6-TYPICAL JUNCTION CAPACITANCE