

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

ER2A THRU ER2G

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SUPER FAST RECTIFIER

VOLTAGE RANGE - 50 to 400 Volts

CURRENT - 2.0 Amperes

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Glass passivated junction

MECHANICAL DATA

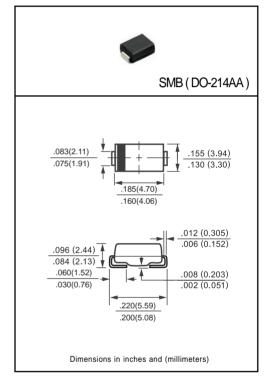
* Case: Molded plastic

* Epoxy: UL 94V-0 rate flame retardant *Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

* Polarity: As marked * Mounting position: Any * Weight: 0.093 gram

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%.



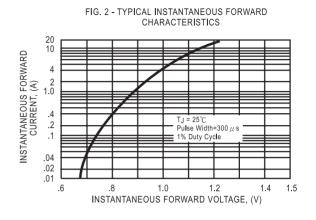
		SYMBOL	ER2A	ER2B	R2C	ER2D	ER2E	ER2G	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	150	200	300	400	Volts
Maximum RMS Voltage		VRMS	35	70	105	140	210	280	Volts
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	Volts
Maximum Average Forward Rectified Current at TA = 75°C		lo	2.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	60						Amps
Maximum Instantaneous Forward Voltage at 2.0A DC		VF	0.95 1.25					Volts	
Maximum DC Reverse Current	@Ta = 25°C	JR 5.0						uAmps	
at Rated DC Blocking Voltage	@Ta = 100°C	IK IK	100						
Maximum Reverse Recovery Time (Note 3)		trr	35						nSec
Typical Thermaesistance(Note 2)		RθJL	20						°C/W
Typical Junction Capacitance (Note 1)		Сл	30						pF
Operating and Storage Temperature Range		TJ,TSTG	-65 to + 175						°C

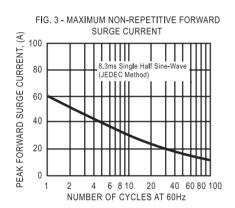
NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

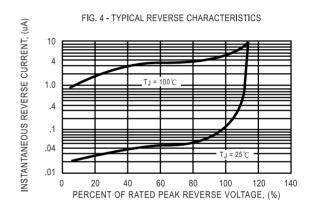
- 2. Thermal Resistance (Junction to Ambient), 0.2x0.2in²(5X5mm²)copper pads to each terminal.
- 3. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

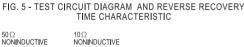
RATING AND CHARACTERISTIC CURVES (ER2A THRU ER2G)

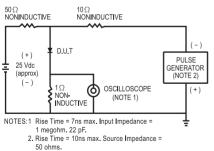
FIG. 1 - TYPICAL FORWARD CURRENT **DERATING CURVE** AVERAGE FORWARD CURRENT, (A) 2.5 2.0 1.5 1.0 Single Phase Half Wave 60Hz .5 Resistive or Inductive Load 0 0 50 25 75 100 125 150 175 AMBIENT TEMPERATURE, (°C)

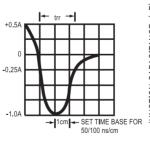












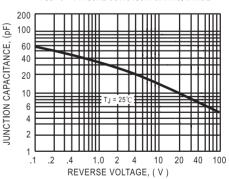


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

