

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

ER1A THRU ER1J

TECHNICAL SPECIFICATIONS OF SUPER FAST RECOVERY RECTIFIER VOLTAGE RANGE - 50 to 600 Volts CURRENT - 1.0 Ampere

FEATURES

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

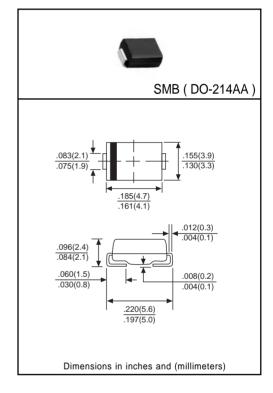
MECHANICAL DATA

* 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 Rating at 25°C ambient tempature unless ohterwise specified Single phase, half wave 60 HZ, resistive or inductive load. For capacitive load, derate current by 20%.



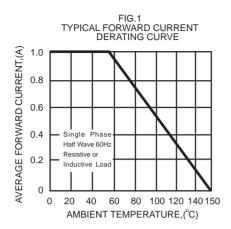
		SYMBOL	ER1A	ER1B	ER1C	ER1D	ER1E	ER1G	ER1J	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage		VRMS	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current at TA = 55°C		lo	1.0							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	30						Amps	
Maximum Forward Voltage at 1.0A DC		V _F		0.95 1.25 1.7				1.7	Volts	
Maximum DC Reverse Current at	@Ta = 25°C	la.	5.0							μAmps
Rated DC Blocking Voltage	@T _A = 100°C	lR	100							
Maximum Reverse Recovery Time (Note 1)		trr	35							nSec
Typical Junction Capacitance (Note 2)		Cı	34							pF
Typical Thermaesistance (Note 1)		R⊕JL	10							°C/W
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150							٥C

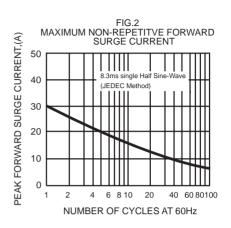
NOTES: 1. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

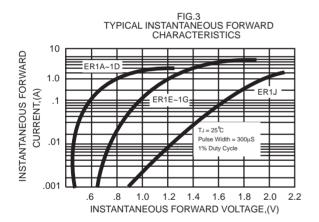
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volrs.

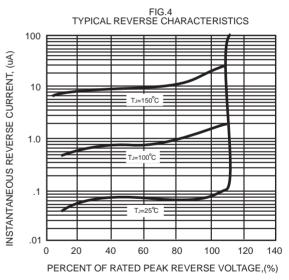
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RATING AND CHARACTERISTIC CURVES (ER1A THRU ER1J)









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