DC COMPONENTS CO., LTD.

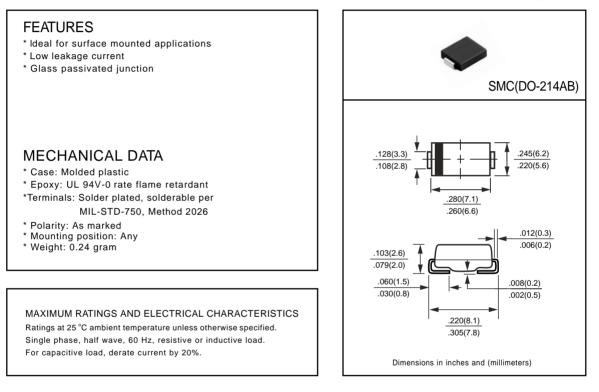
RECTIFIER SPECIALISTS

ER3A THRU ER3J

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SUPER FAST RECTIFIER

VOLTAGE RANGE 50 to 600 Volts

CURRENT 3.0 Ampere



		SYMBOL	ER3A	ER3B	ER3C	ER3D	ER3E	ER3G	ER3J	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	3.0							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	100						Amps	
Maximum Forward Voltage at 3.0A DC		VF	0.95 1.25 1.7				1.7	Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	la.	5.0						- μAmps	
	$@T_A = 100^{\circ}C$	IR	200							
Maximum Reverse Recovery Time (Note 1)		trr	35							nSec
Typical Junction Capacitance (Note 2)		CJ	60							pF
Operating and Storage Temperature Range		TJ, TSTG	-65 to +175							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.

RATING AND CHARACTERISTIC CURVES (ER3A THRU ER3J)

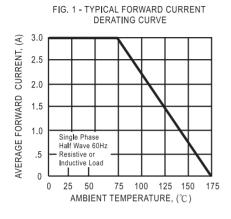


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

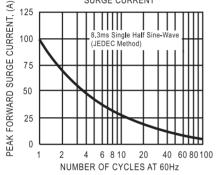


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

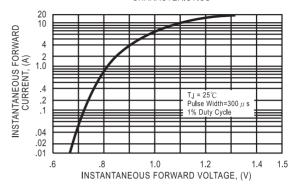


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

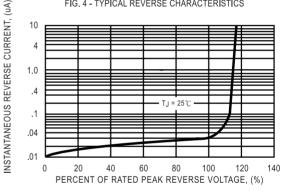


FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

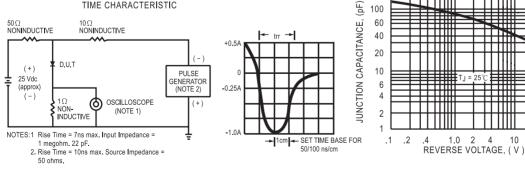


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

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10 20 40 100

200

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