

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

UF3A THRU UF3M

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT ULTRA FAST RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 3.0 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

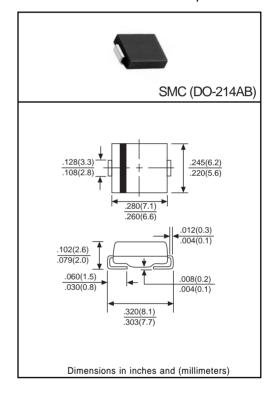
* Polarity: As marked

* Mounting position: Any * Weight: 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



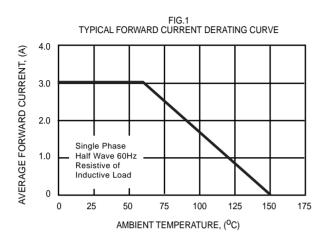
		SYMBOL	UF3A	UF3B	UF3D	UF3G	UF3J	UF3K	UF3M	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 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		1.0 1.3			1.7			Volts
Maximum DC Reverse Current at	@TA = 25°C	la.	5						μAmps	
Rated DC Blocking Voltage	$@T_A = 100^{\circ}C$	lr.	300							μλιτίρο
Maximum Reverse Recovery Time (Note 3)		trr		50			100		nSec	
Typical Thermal Resistance (Note 2)		RθJL	10						pF	
Typical Junction Capacitance (Note 1)		Cı	60							°C/W
Operating and Storage Temperature Range		TJ, TSTG	-65 to +175						°C	

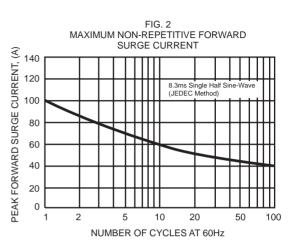
NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volrs.

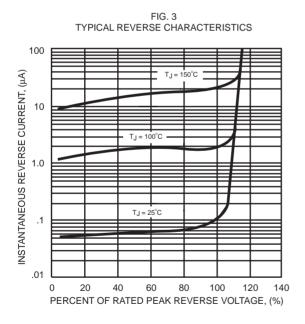
- 2. Thermal Resistance (Junction to Ambient), 0.2x0.2in² (5x5mm²) copper pads to each terminal.
- 3. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

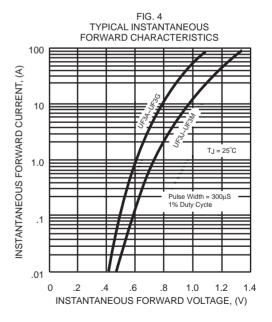
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RATING AND CHARACTERISTIC CURVES (UF3A THRU UF3M)









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