



UF3A~UF3J

SURFACE MOUNT ULTRAFAST RECTIFIER

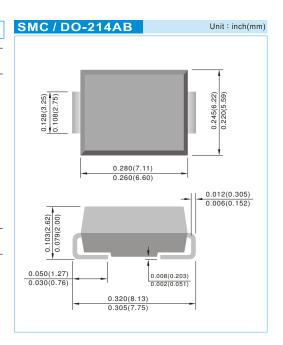
VOLTAGE 50 to 600 Volts CURRENT 3 Amperes

FEATURES

- For surface mounted applications
- · Low profile package
- Built-in strain relief
- · Easy pick and place
- · Ultrafast recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · Glass passivated junction
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: JEDEC DO-214AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Indicated by cathode band
- Standard packaging: 16mm tape (EIA-481)
- Weight: 0.0082 ounce, 0.2325 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%.

PARAMETER	SYMBOL	UF3A	UF3B	UF3D	UF3G	UF3J	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	V
Maximum Average Forward Current	I _{F(AV)}	3					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	100					А
Maximum Forward Voltage at 3A	V _F	1 1.3			1.7	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_{_J}=25^{\circ}C$ $T_{_J}=125^{\circ}C$	I _R	1 300					μА
Typical Junction Capacitance (Note 2)	C J	75				63	pF
Typical Thermal Resistance (Note 3)	$R_{_{ heta JL}}$	15					°C / W
Maximum Reverse Recovery Time (Note 1)	t _{rr}	50			100	ns	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150					°C

NOTES:1. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{rr} =0.25A

- 2. Measured at 1 MHz and applied $V_r = 4.0 \ volts$.
- 3. $8.0 \ \text{mm}^2$ (.013 mm thick) land areas.

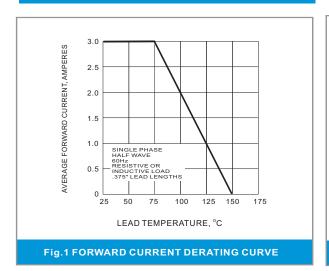
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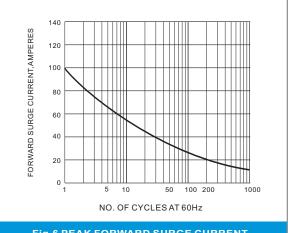




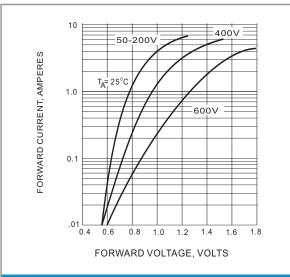
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RATING AND CHARACTERISTIC CURVES









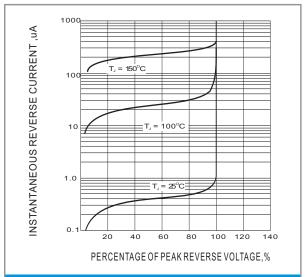
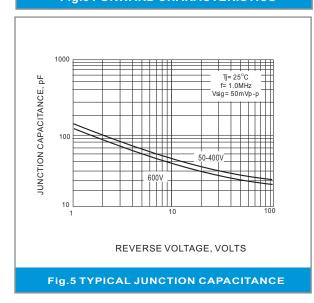


Fig.3 FORWARD CHARACTERISTICS

Fig.4 TYPICAL REVERSE CHARACTERISTICS



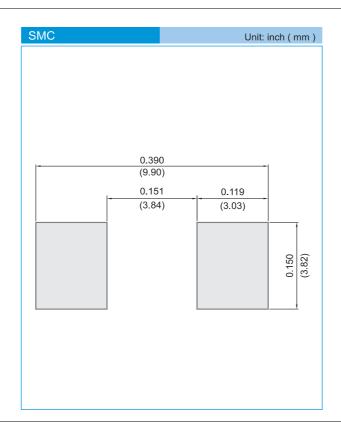
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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5Kper 7" plastic Reel

LEGAL STATEMENT

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