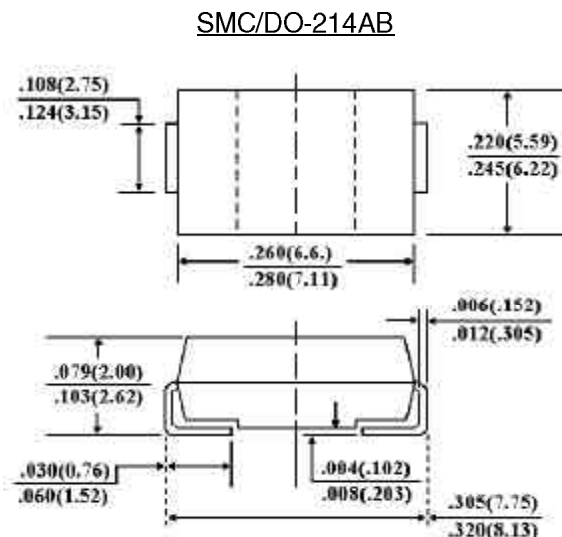


FEATURES

- 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-0
- Glass passivated junction
- High temperature soldering:
260 °C/10 seconds at terminals

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: 0.007 ounce, 0.21 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Resistive or inductive load. For capacitive load, derate current by 20%.

	SYMBOLS	UF3A	UF3B	UF3D	UF3G	UF3J	UF3K	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	Volts
Maximum Average Forward Rectified Current, at $T_L=75$ °C	$I_{(AV)}$	3.0						Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC method) $T_A=55$ °C	I_{FSM}	100.0						Amps
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1.0		1.4	1.7			Volts
Maximum DC Reverse Current $T_A=25$ °C At Rated DC Blocking Voltage $T_A=100$ °C	I_R	10.0 300						µgA
Maximum Reverse Recovery Time (Note 1) $T_J=25$ °C	T_{RR}	50.0				100.0		nS
Typical Junction capacitance (Note 2)	C_J	75.0				63		pF
Maximum Thermal Resistance (Note 3)	$R_{\theta KJL}$	15						°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-50 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 reverse voltage of 4.0 volts
3. 8.0mm² (.013mm thick) land areas

RATING AND CHARACTERISTIC CURVES

UF3A THRU UF3K

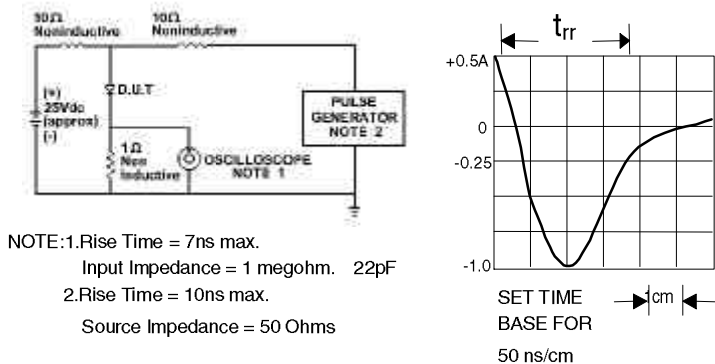


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

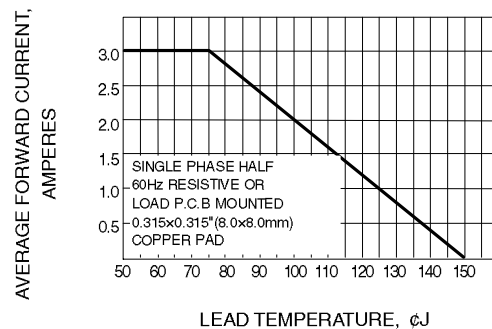


Fig. 2-MAXIMUM AVERAGE FORWARD CURRENT RATING

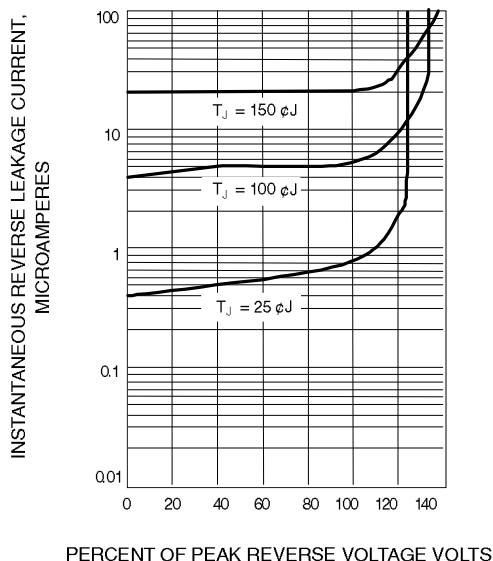


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

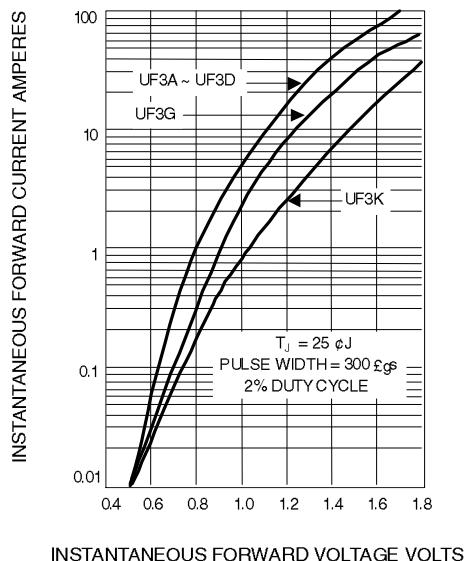


Fig. 4-TYPICAL FORWARD CHARACTERISTICS

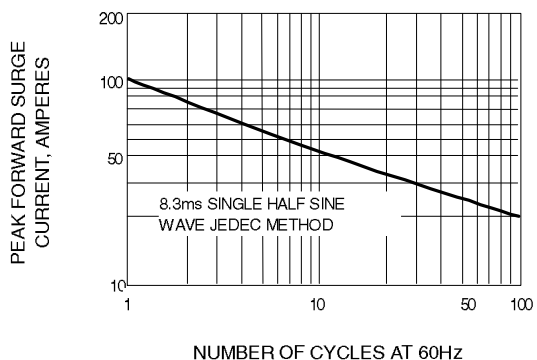


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

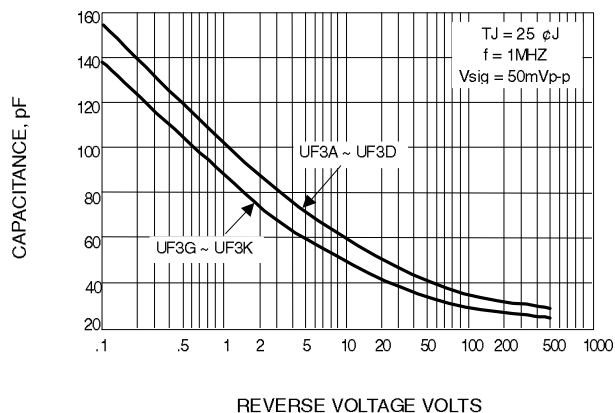


Fig. 6-TYPICAL JUNCTION CAPACITANCE