

FEATURES

- Glass Passivated Die Construction
- Super-Fast Recovery Time For High Efficiency
- Low Forward Voltage Drop and High Current Capability
- Ideally Suited for Automated Assembly
- Plastic Material: UL Flammability Classification Rating 94V-0



DO-214AB (SMC)

MECHANICAL DATA

- Case: DO-214AB Molded plastic
- Terminals: Pure tin plated, lead free
- Polarity: Indicated by cathode band
- Weight: 250mg (approx.)



Cathode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

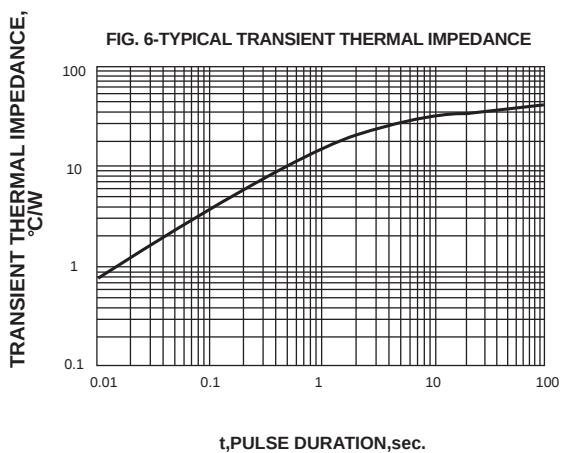
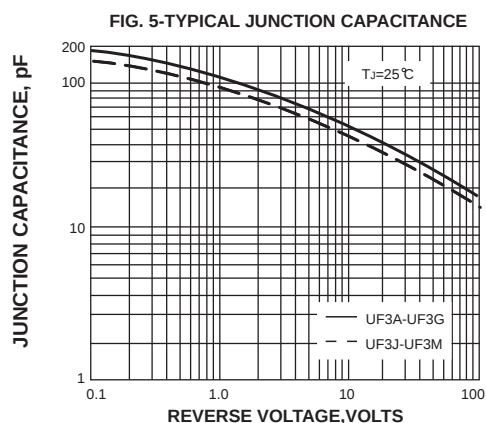
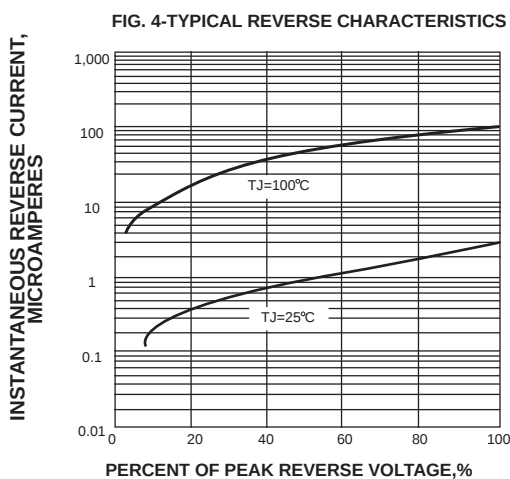
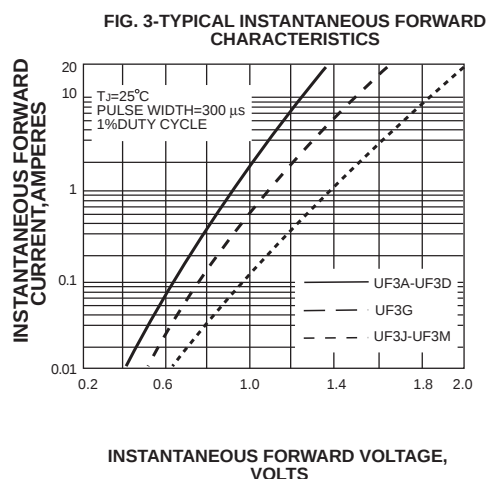
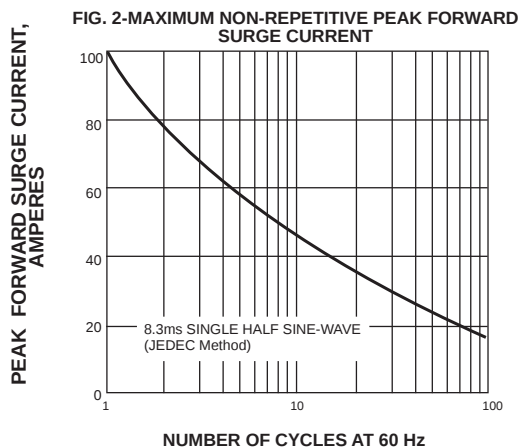
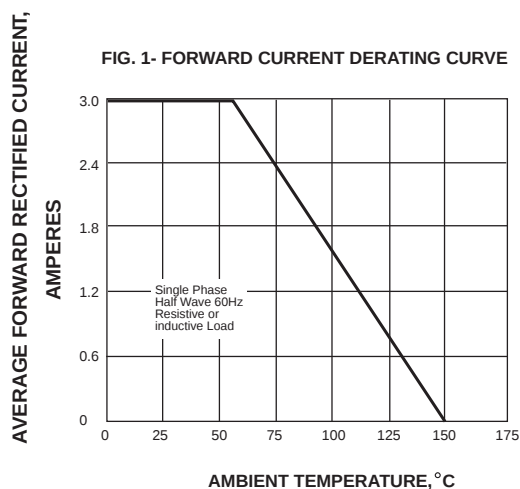
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	UF3A	UF3B	UF3D	UF3G	UF3J	UF3K	UF3M	Unit	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current at T _A =75 °C	I _{F(AV)}	3.0							A	
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC)	I _{FSM}	100.0							A	
Maximum Instantaneous Forward Voltage at 3 A		V _F			1.0		1.4	1.7	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25 °C T _A =100 °C	I _R	5.0 50.0							μA
Maximum reverse recovery time (NOTE1)		t _{rr}			50		100		nS	
Typical Junction Capacitance (NOTE2)		C _J			75		63		pF	
Maximum Thermal Resistance (NOTE3)		R _{θJL}			47.0				°C/W	
Operating and Storage Temperature Range		T _{J, TS}			-50 to + 150				°C	

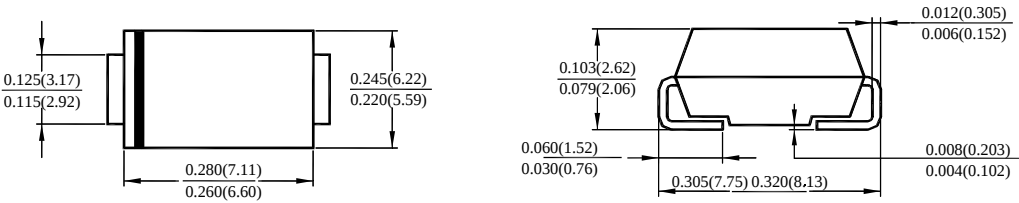
Note: 1.Reverse recovery condition $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

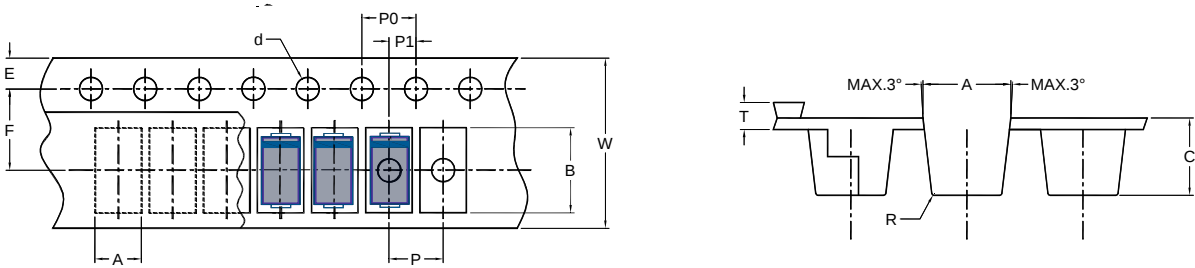
Typical Characteristics

SMC Package Outline Dimensions



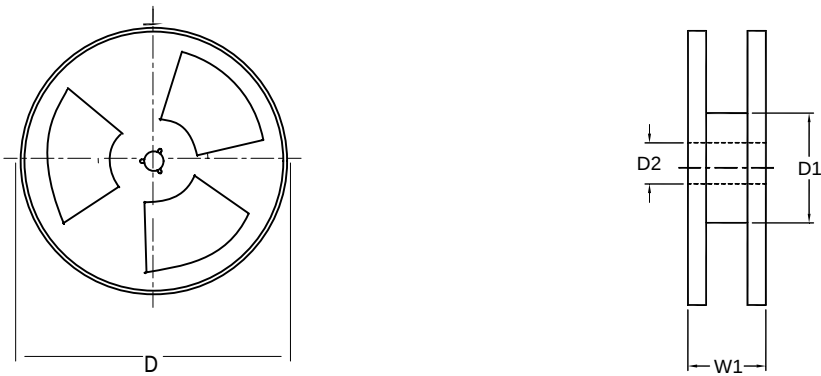
(DIMENSIONS ARE IN MILLIMETER)

SMC Embossed Carrier Tape



	DIMENSIONS ARE IN MILLIMETER										
TYPE	A	B	C	d	E	F	P	P0	P1	T	W
SMC	6.0	8.30	2.5	1.5	1.5	7.65	8	4	4	0.6 Max.	16
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.1	±0.1	±0.1	±0.1	±0.2

SMC Reel



	DIMENSIONS ARE IN MILLIMETER			
REEL OPTION	D	D1	D2	W1
7" DIA	178	50 min.	13	24
TOLERANCE	±2	±0.1	±0.5	±2