

D1F60

SURFACE MOUNT GENERAL PURPOSE RECTIFIER

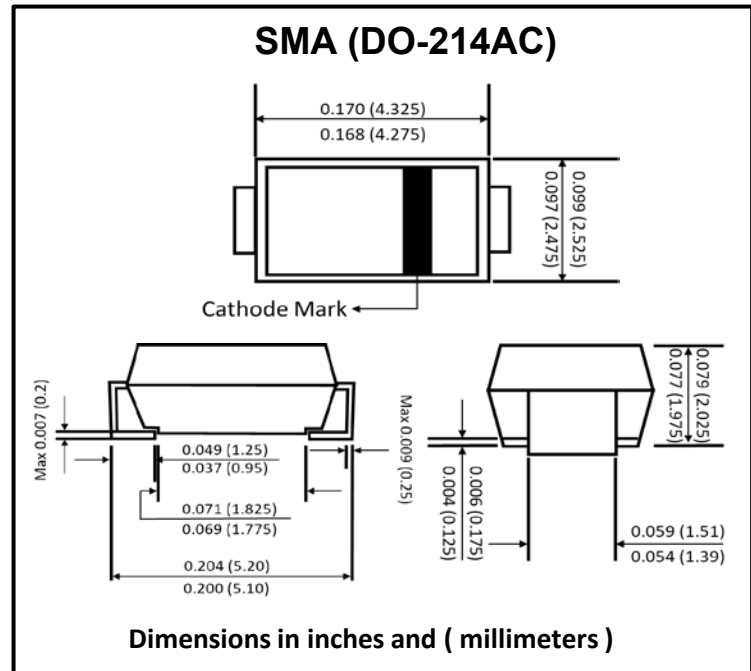
PRV : 600 Volts
I_o : 1.0 Ampere

FEATURES :

- * High reliability with superior moisture resistance
- * Applicable to Automatic insertion
- * High current capability
- * High surge current capability
- * Low reverse current
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SMA Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.067 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Reverse Voltage	V_{RM}	600	V
Maximum Average Rectified Forward Current (50 Hz sine wave, R - load , Ta = 25 °C)	I_o	1.0 (Note 1) 0.75 (Note 2)	A
Maximum Peak Forward Surge Current (50 Hz sine wave, Non - repetitive 1 cycle peak value, Tj =25 °C)	I_{FSM}	25	A
Maximum Forward Voltage at $I_F = 1$ A (Pulse Measurement)	V_F	1.1	V
Maximum Reverse Current at $V_R = V_{RM}$ (Pulse Measurement)	I_R	10	μ A
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	23	°C/W
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	108 (Note 1) 157 (Note 2)	°C/W
Junction Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	- 55 to + 150	°C

Notes :

- (1) On alumina substrate.
- (2) On glass - epoxy substrate.

RATING AND CHARACTERISTIC CURVES (D1F60)

FIG.1 - FORWARD CURRENT DERATING CURVE

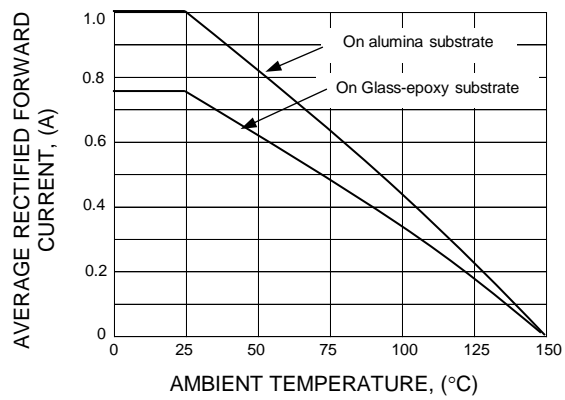


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

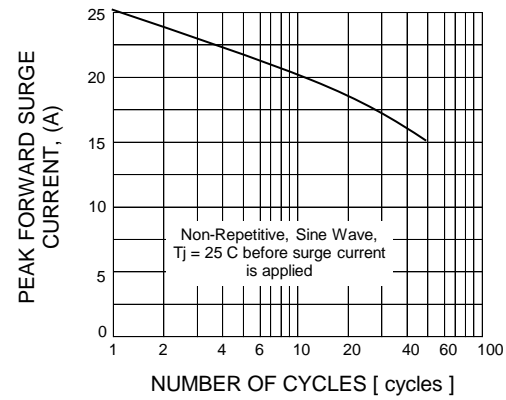


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

