

SJPX-H6

SURFACE MOUNT ULTRA FAST RECTIFIER

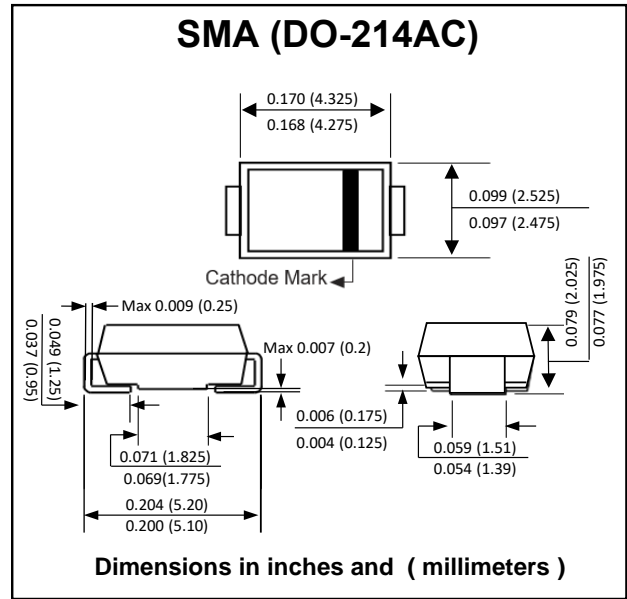
PRV : 600 Volts
I_o : 2.0 Amperes

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Super fast recovery time
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SMA Molded plastic
- * Epoxy : UL94V-0 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 Peak Reverse Surge Voltage	V _{RSM}	600	V
Maximum Peak Reverse Voltage	V _{RM}	600	V
Maximum Average Forward Current	I _{F(AV)}	2.0	A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sine wave, Single Shot)	I _{FSM}	20	A
Maximum Forward Voltage at I _F = 2.0 A	V _F	1.5	V
Maximum Reverse Current at V _R = V _{RM} , T _J = 25 °C T _J = 150 °C	I _R	10	μA
	I _{R(H)}	3	mA
Thermal Resistance, Junction to Lead	R _{θJL}	20	°C/W
Maximum Reverse Recovery Time (Note 1) (Note 2)	T _{rr1}	30	ns
	T _{rr2}	20	ns
Operating Junction Temperature Range	T _J	- 40 to + 150	°C
Storage Temperature Range	T _{STG}	- 40 to + 150	°C

Notes :

- (1) Reverse Recovery Test Conditions : I_F = 100 mA, I_{RP} = 100 mA, 90% Recovery point, T_J=25°C
- (2) Reverse Recovery Test Conditions : I_F = 100 mA, I_{RP} = 200 mA, 75% Recovery point, T_J=25°C

RATING AND CHARACTERISTIC CURVES (SJPX-H6)

FIG.1 - CURRENT DERATING, LEAD

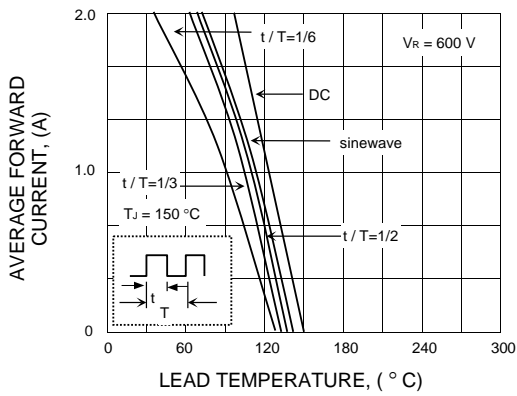


FIG.2 - MAXIMUM STEADY STATE POWER DISSIPATION AS A FUNCTION OF AVERAGE FORWARD CURRENT

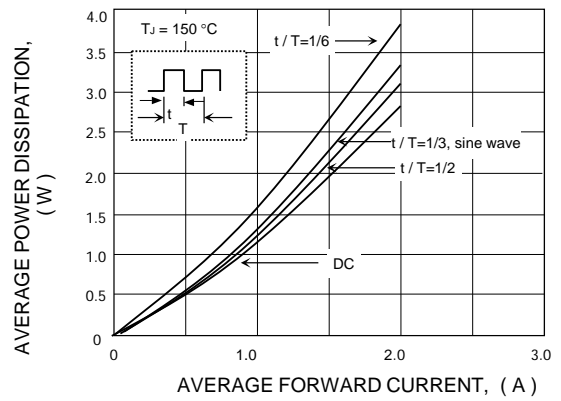


FIG.3 - MAXIMUM STEADY STATE POWER DISSIPATION AS A FUNCTION OF REVERSE VOLTAGE

