

SJPL-H2

PRV : 200 Volts
Io : 2.0 Amperes

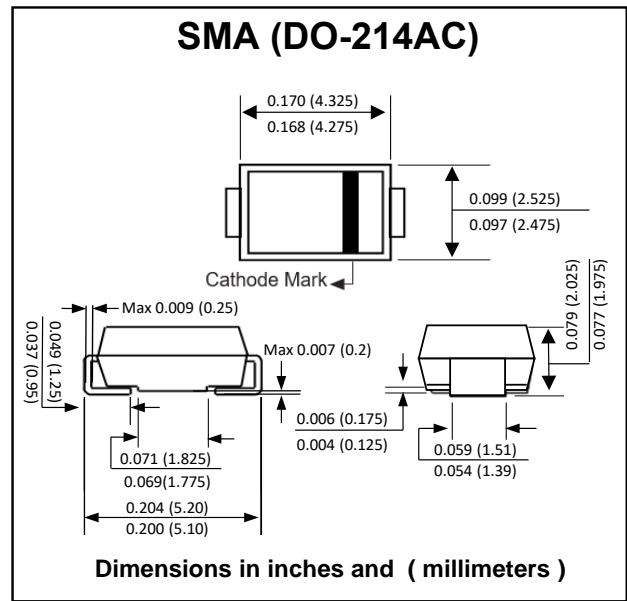
FEATURES :

- * 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

SURFACE MOUNT ULTRA FAST RECTIFIER



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}	200	V
Maximum Peak Reverse Voltage	V_{RM}	200	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}	25	A
Maximum Forward Voltage at $I_F = 2.0$ A	V_F	0.98	V
Maximum Reverse Current at $V_R = V_{RM}$, $T_J = 25$ °C $T_J = 150$ °C	I_R	50	µA
	$I_{R(H)}$	200	µA
Thermal Resistance, Junction to Lead	$R_{\theta JL}$	20	°C/W
Maximum Reverse Recovery Time (Note 1) (Note 2)	T_{rr1}	50	ns
	T_{rr2}	35	ns
Operating Junction Temperature Range	T_J	- 40 to + 150	°C
Storage Temperature Range	TSTG	- 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 (SJPL-H2)

FIG.1 - CURRENT DERATING, LEAD

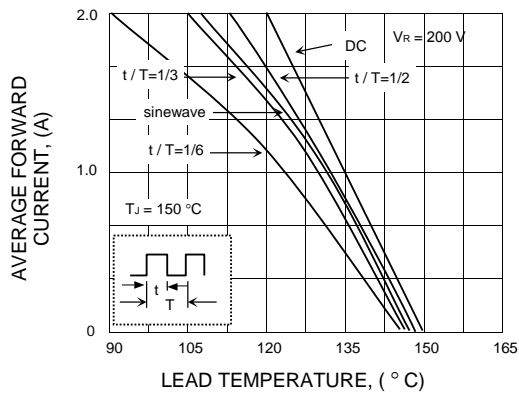


FIG.2 - MAXIMUM STEADY STATE POWER DISSIPATION AS A FUNCTION OF AVERAGE FORWARD CURRENT

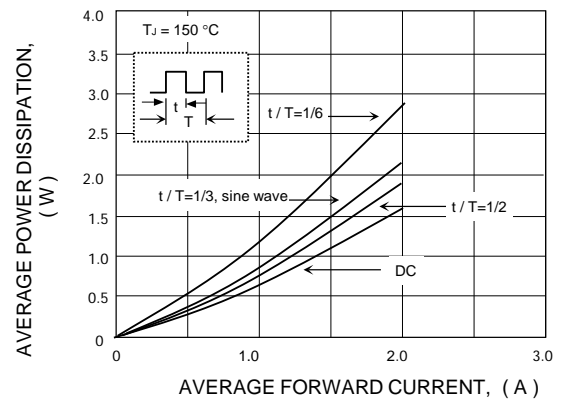


FIG.3 - MAXIMUM STEADY STATE POWER DISSIPATION AS A FUNCTION OF REVERSE VOLTAGE

