

SFPX-63

PRV : 300 Volts

I_o : 2.0 Ampere

FEATURES :

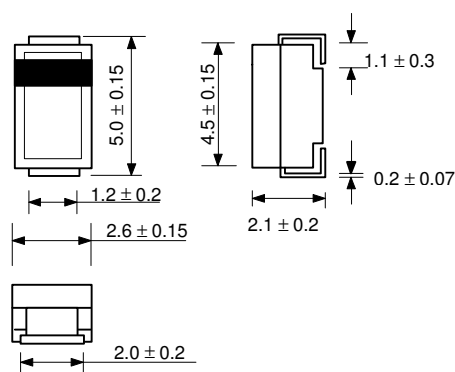
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * **Pb / RoHS Free**

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 : 0.064 gram

SURFACE MOUNT ULTRA FAST RECOVERY RECTIFIER DIODES

SMA (DO-214AC)



Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

RATING	SYMBOL	VALUE	UNIT
Maximum Peak Reverse Voltage	V _{RM}	300	V
Maximum Average Forward Current	I _{F(AV)}	2.0	A
Maximum Peak Forward Surge Current, Half-cycle Sinewave Single Shot, 50 Hz	I _{FSM}	20	A
Maximum Forward Voltage at I _F = 2.0 A	V _F	1.3	V
Maximum Reverse Current at V _R = V _{RRM} Ta = 25 °C	I _R	50	μA
Maximum Reverse Current at V _R = V _{RRM} Ta = 150 °C	I _{R(H)}	3.0	mA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	30	ns
Thermal Resistance from Junction to Case	R _{th j-c}	20	°C/W
Junction Temperature Range	T _J	- 40 to + 150	°C
Storage Temperature Range	T _{STG}	- 40 to + 150	°C

Note :

(1) Reverse Recovery Test Conditions : I_F = 100 mA, I_{RP} = 100 mA.

RATING AND CHARACTERISTIC CURVES (SFPX-63)

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

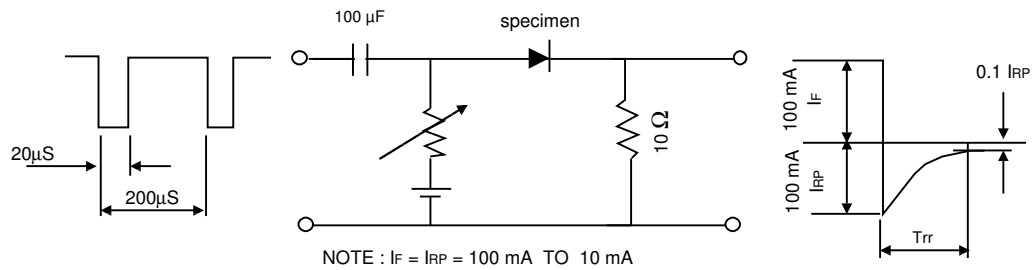


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

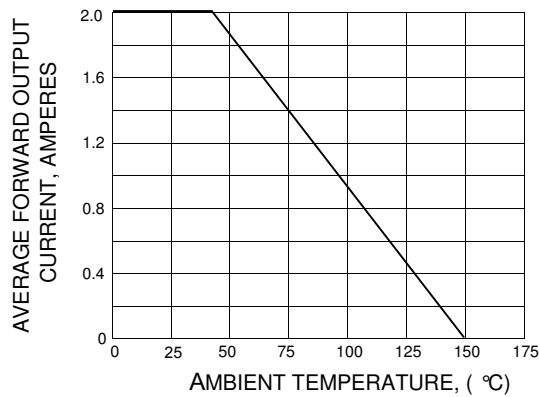


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

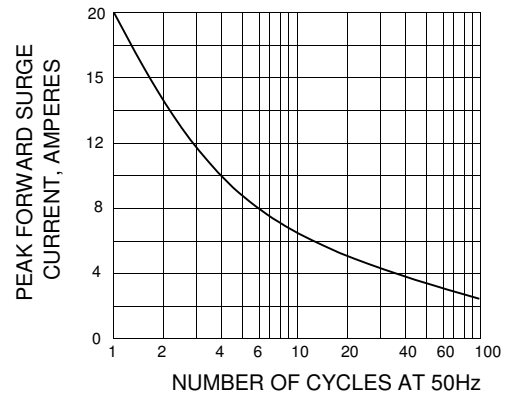


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

