

GR15

PRV : 1500 Volts
Io : 0.5 Ampere

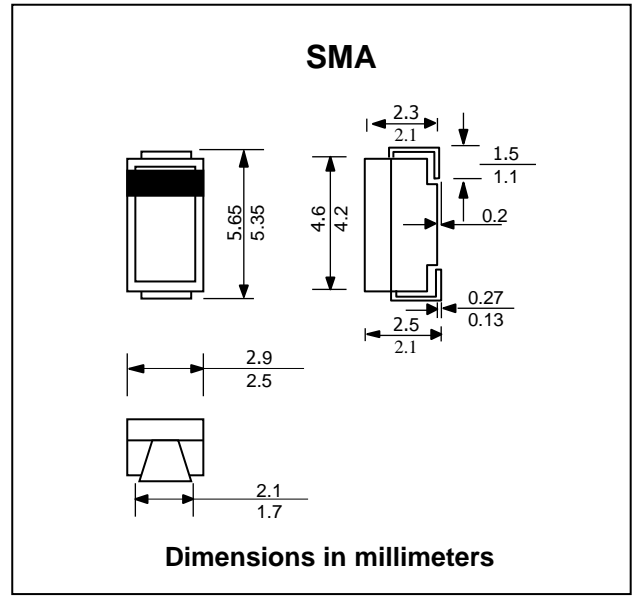
FEATURES :

- * Glass passivated chip
- * 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
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.060 gram (Approximately)

HIGH VOLTAGE FAST RECOVERY RECTIFIER



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 Recurrent Peak Reverse Voltage	V_{RRM}	1500	V
Maximum RMS Voltage	V_{RMS}	1050	V
Maximum DC Blocking Voltage	V_{DC}	1500	V
Maximum Average Forward Current	$I_{F(AV)}$	0.5	A
Maximum Peak Forward Surge Current, 8.3ms Single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	20	A
Maximum Forward Voltage at $I_F = 0.1$ A	V_F	2.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5	μA
	$I_{R(H)}$	50	μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	300	ns
Junction Temperature Range	T_J	- 65 to + 150	°C
Storage Temperature Range	T_{STG}	- 65 to + 150	°C

Note : (1) Reverse Recovery Test Conditions : $I_F = 0.5$ A, $I_R = 1.0$ A, $I_{rr} = 0.25$ A.

RATING AND CHARACTERISTIC CURVES (GR15)

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

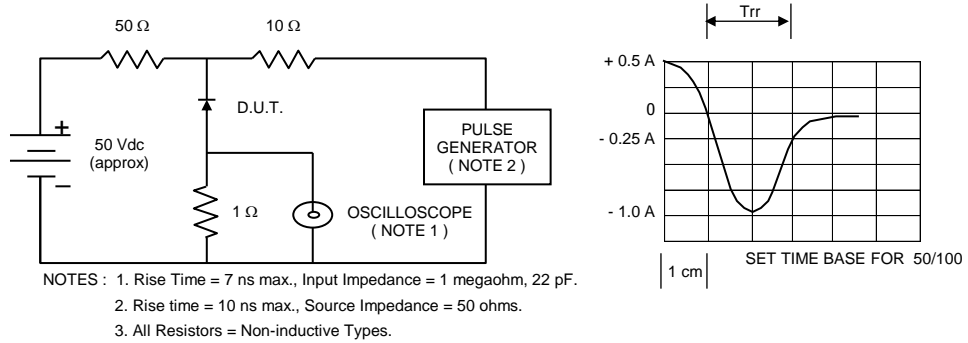


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

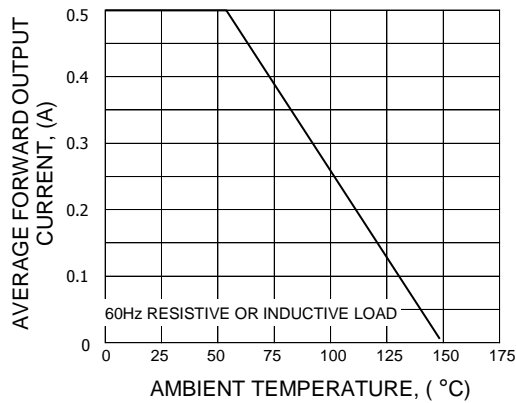


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

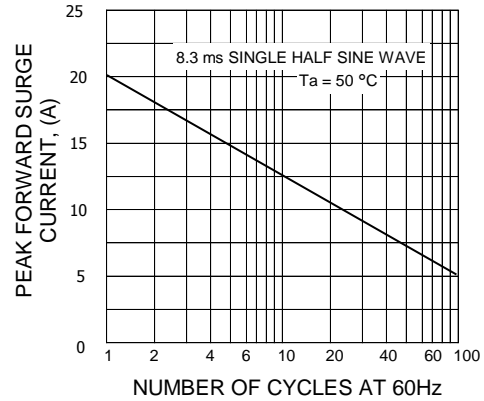


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

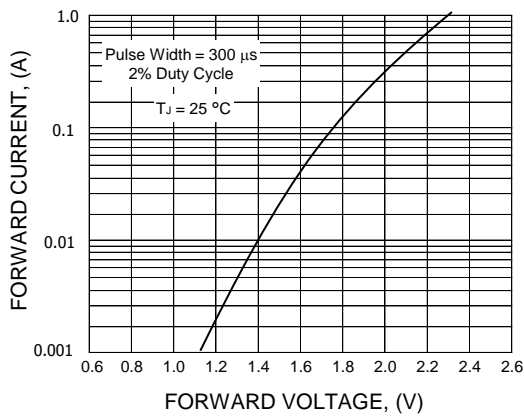


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

