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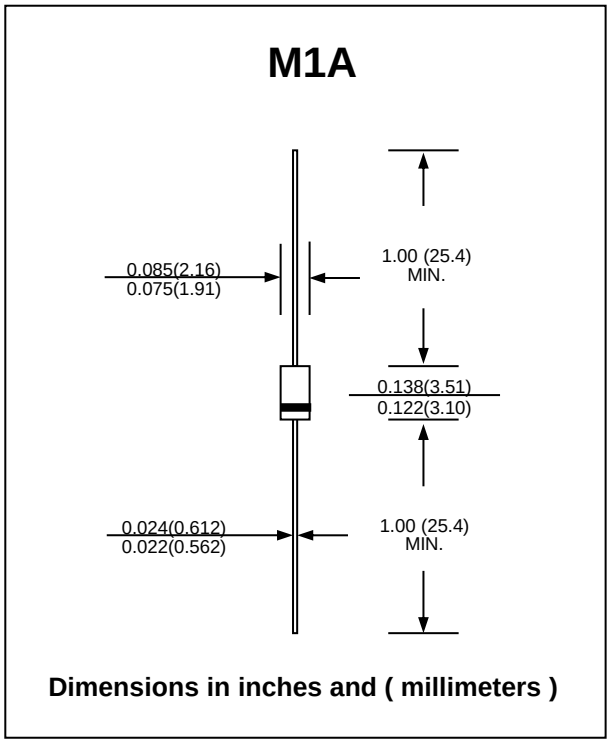
S5688B, G, J, N

GLASS PASSIVATED JUNCTION SILICON RECTIFIERS

PRV : 100 - 1000 Volts
Io : 1.0 Ampere



FEATURES :

* Glass passivated junction chip
* High current capability
* High surge current capability
* High reliability
* Low reverse current
* Low forward voltage drop
* Pb / RoHS Free

MECHANICAL DATA :

* Case : M1A Molded plastic
* Epoxy : UL94V-O rate flame retardant
* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.20 gram (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	S5688B	S5688G	S5688J	S5688N	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	400	600	1000	V
Maximum Average Forward Current	$I_{F(AV)}$	1.0				A
Maximum Peak One Cycle Surge Forward Current (Non-Repetitive), 60 Hz	I_{FSM}	30				A
Peak Forward Voltage at I_F = 1.0 A	V_F	1.2				V
Repetitive Peak Reverse Current (V_{RRM} = Rated)	I_{RRM}	10				µA
Junction Temperature Range	T_J	- 40 to + 150				°C
Storage Temperature Range	T_{STG}	- 40 to + 150				°C

RATING AND CHARACTERISTIC CURVES (S5688B, G, J, N)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

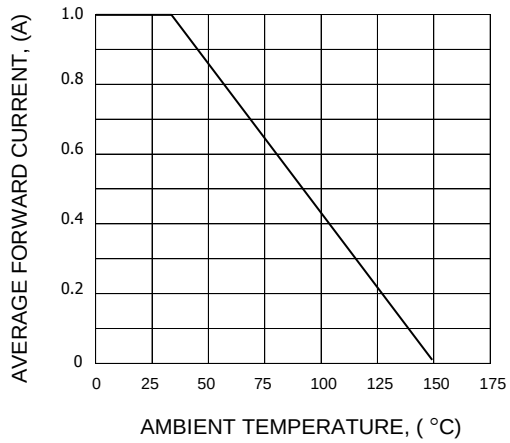


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

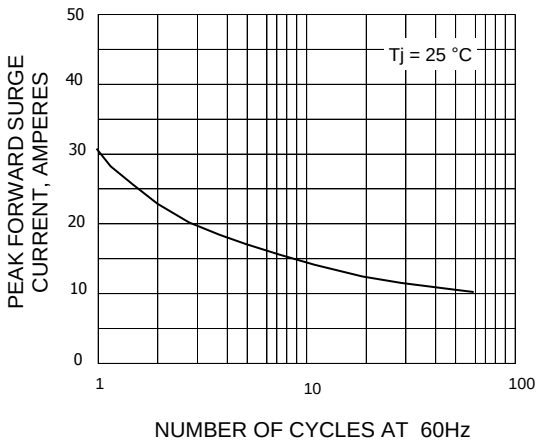


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

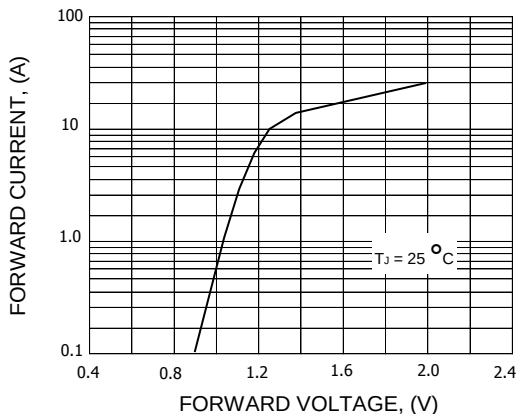


FIG.4 - TYPICAL REVERSE CHARACTERISTICS