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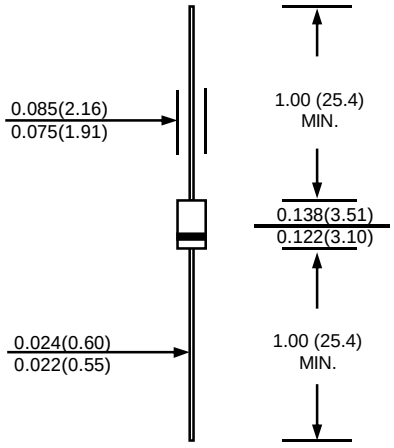
ERA83-004

SCHOTTKY BARRIER RECTIFIER DIODE

PRV : 40 Volts
Io : 1.0 Ampere

M1A



Dimensions in inches and (millimeters)

FEATURES :
* High current capability
* High surge current capability
* High reliability
* High efficiency
* Low power loss
* Low forward voltage drop
* Low cost
* Pb / RoHS Free

MECHANICAL DATA :
* Case : M1A Molded plastic
* Epoxy : UL94V-0 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.
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}	40	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Current T_L = 115 °C	$I_{F(AV)}$	1.0	A
Maximum Non-Repetitive Peak Forward Surge Current	I_{FSM}	50	A
Maximum Forward Voltage at I_F = 1.0 A	V_F	0.55	V
Maximum Reverse Current at V_{RRM}	I_R	2.0	mA
Junction Temperature Range	T_J	- 40 to + 125	°C
Storage Temperature Range	T_{STG}	- 40 to + 125	°C

RATING AND CHARACTERISTIC CURVES (ERA83-004)

FIG.1 - FORWARD CURRENT DERATING CURVE

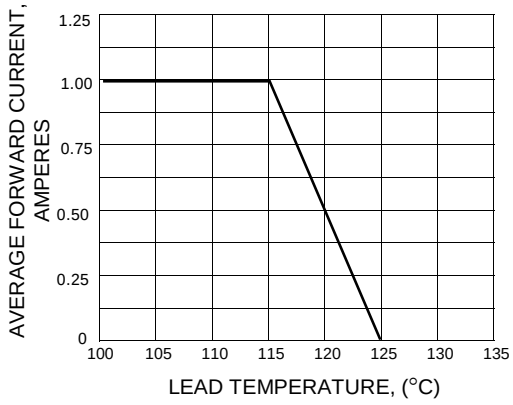


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

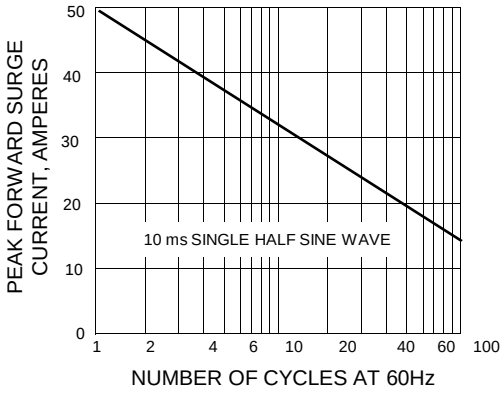


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

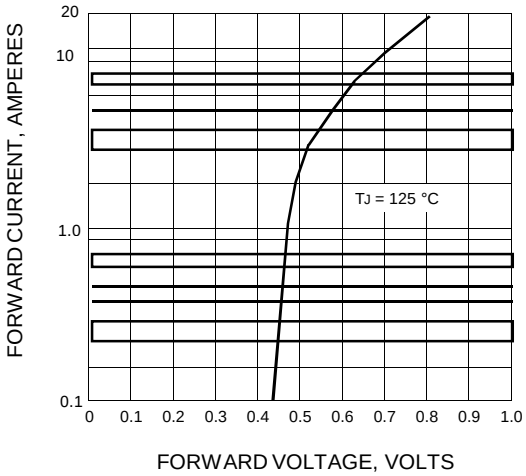


FIG.4 - TYPICAL REVERSE CHARACTERISTICS