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EM2 - EM2B

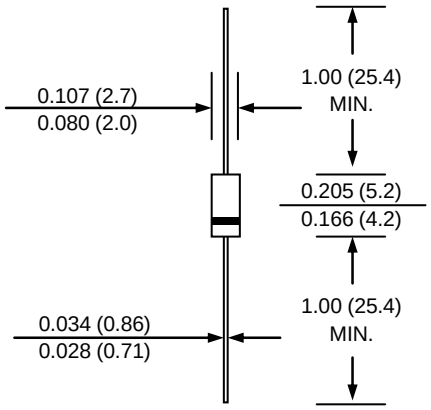
RECTIFIER DIODES

PRV : 400 - 800 Volts
Io : 1.2 Ampere

FEATURES :
* High current capability
* High surge current capability
* High reliability
* Low reverse current
* Low forward voltage drop
* Pb / RoHS Free

MECHANICAL DATA :
* Case : DO-41 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 : 0.34 gram

DO - 41



Dimensions in inches and (millimeters)

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	EM2	EM2A	EM2B	UNIT
Maximum Peak Reverse Voltage	V_{RM}	400	600	800	V
Maximum Peak Reverse Surge Voltage	V_{RSM}	450	650	850	V
Maximum Average Forward Current	$I_{F(AV)}$	1.2			A
Nonrepetitive Peak Surge Current (50 Hz Half-cycle Sine Wave Single Shot)	I_{FSM}	80			A
Maximum Forward Voltage at 1.2 Amp.	V_F	0.92			V
Maximum Reverse Current at Reverse Voltage Ta = 25 °C	I_R	10			µA
Maximum Reverse Current at Reverse Voltage Ta = 100 °C	$I_{R(H)}$	50			µA
Junction Temperature Range	T_J	- 40 to + 140			°C
Storage Temperature Range	T_{STG}	- 40 to + 140			°C

RATING AND CHARACTERISTIC CURVES (EM2 - EM2B)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

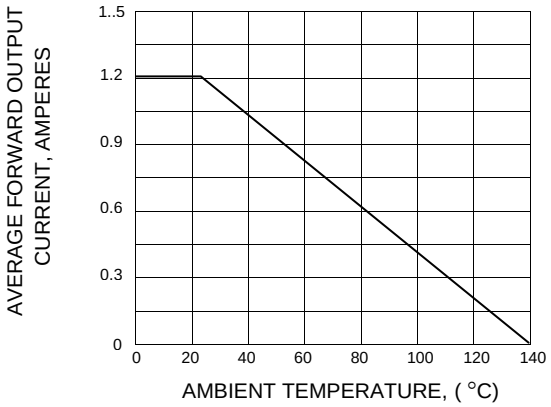


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

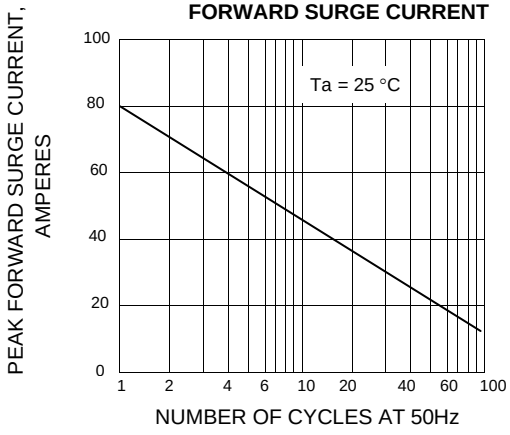


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

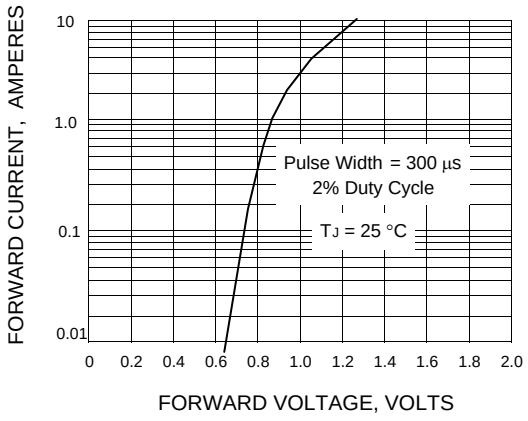


FIG.4 - TYPICAL REVERSE CHARACTERISTICS