

EM2 - EM2B

PRV : 400 - 800 Volts
Io : 1.2 Ampere

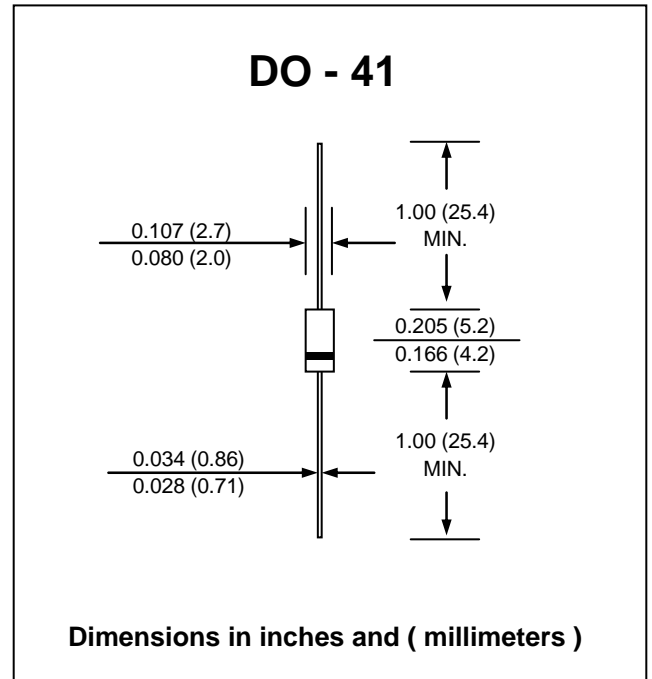
FEATURES :

- * 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

RECTIFIER DIODES



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 $T_a = 25\text{ }^\circ\text{C}$	I_R	10			μA
Maximum Reverse Current at Reverse Voltage $T_a = 100\text{ }^\circ\text{C}$	$I_{R(H)}$	50			μA
Junction Temperature Range	T_J	- 40 to + 140			$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 40 to + 140			$^\circ\text{C}$

RATING AND CHARACTERISTIC CURVES (EM2 - EM2B)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

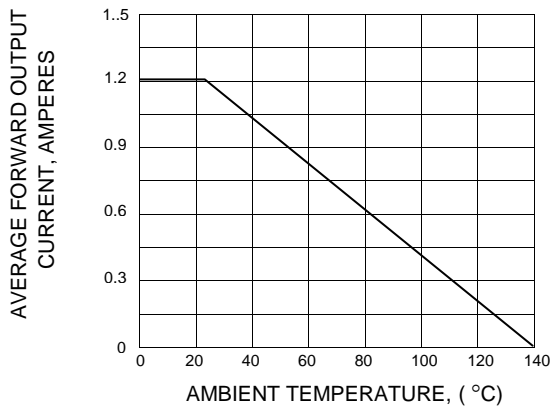


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

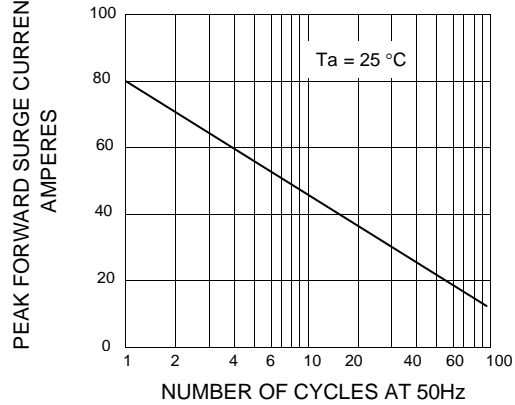


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

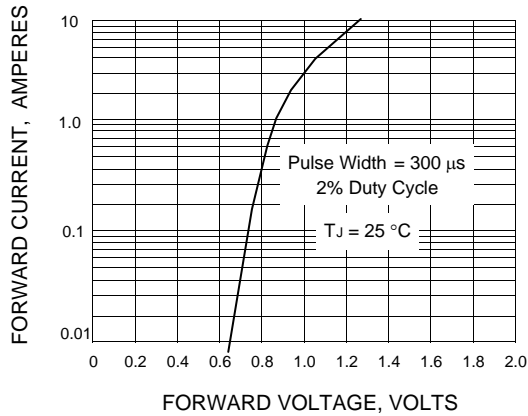


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

