

RM10 - RM10Z

PRV : 200 - 800 Volts
Io : 1.2 - 1.5 Amperes

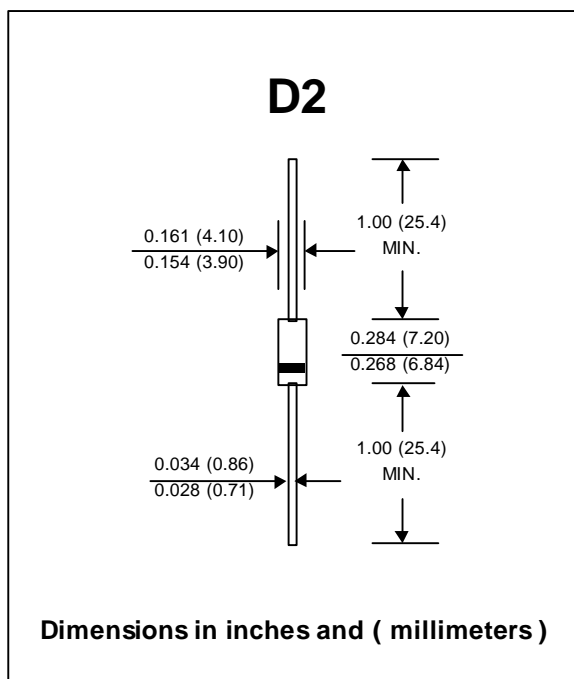
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop

MECHANICAL DATA :

- * Case : D2 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 : 0.465 gram

SILICON 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	RM10Z	RM10	RM10A	RM10B	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	400	600	800	Volts
Maximum RMS Voltage	V _{RMS}	140	280	420	560	Volts
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	Volts
Maximum Average Forward Current 0.375"(9.5mm) Lead Length Ta = 70 °C	I _F	1.5	1.2			Amps.
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	120	150			Amps.
Maximum Forward Voltage at I _F = 1.5 Amps.	V _F	0.91				Volts
Maximum DC Reverse Current Ta = 25 °C at rated DC Blocking Voltage Ta = 100 °C	I _R	10				μA
	I _{R(H)}	50				μA
Typical Junction Capacitance (Note1)	C _J	30				pF
Typical Thermal Resistance (Note2)	R _{θJA}	50				°C/W
Junction Temperature Range	T _J	- 65 to + 175				°C
Storage Temperature Range	T _{STG}	- 65 to + 175				°C

Notes :

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0V_{DC}

(2) Thermal resistance from Junction to Ambient at 0.375" (9.5mm) Lead Lengths, P.C. Board Mounted.

UPDATE : MAY 27, 1998

RATING AND CHARACTERISTIC CURVES (RM10 - RM10Z)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

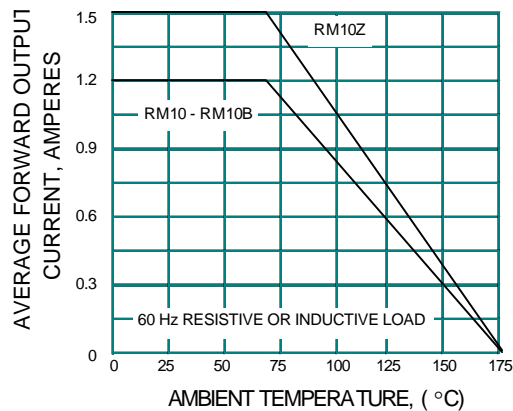


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

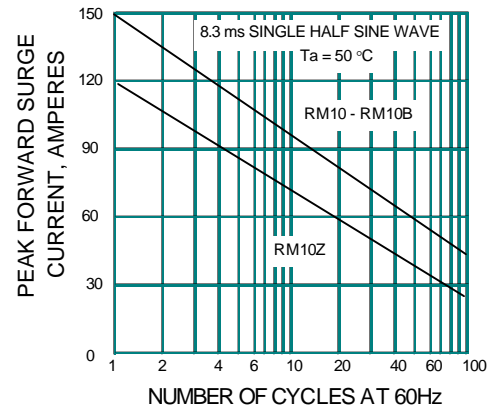


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

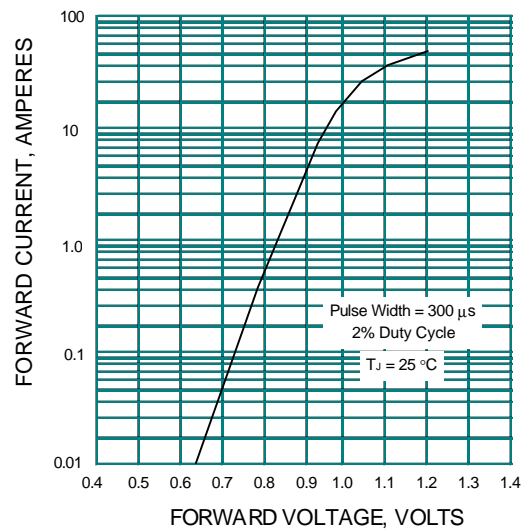


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

