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RU3AMS

FAST RECOVERY RECTIFIER DIODE

PRV : 600 Volts
Io : 1.5 Amperes

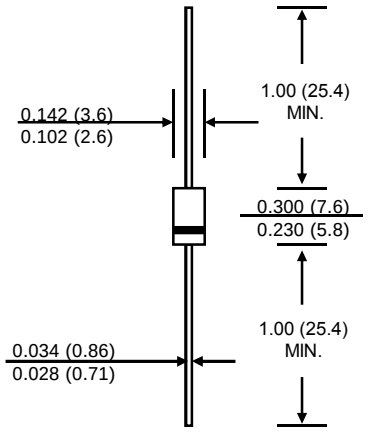
FEATURES :

* High surge current capability
* High reliability
* Low reverse current
* Low forward voltage drop
* Fast switching for high efficiency
* Pb Free / RoHS Compliance

MECHANICAL DATA :

* Case : DO-15 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 : 0.4 gram

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

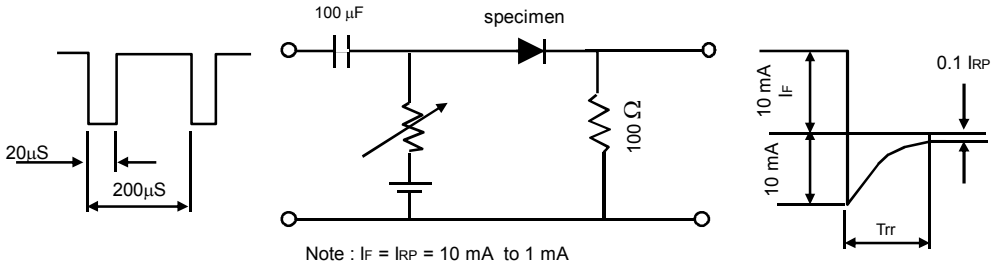
Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Current Ta = 50 °C	$I_{F(AV)}$	1.5	A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle , Sine wave, Single Shot)	I_{FSM}	30	A
Maximum Forward Voltage at I_F = 1.5 A	V_F	1.1	V
Maximum DC Reverse Current Ta = 25 °C	I_R	10	µA
at Rated DC Blocking Voltage Ta = 100 °C	$I_{R(H)}$	350	µA
Maximum Reverse Recovery Time (Note 1)	Trr	0.4	µs
Junction Temperature Range	T_J	- 40 to + 150	°C
Storage Temperature Range	T_{STG}	- 40 to + 150	°C

Note: (1) Reverse Recovery Test Conditions : I_F = 10 mA, I_{RP} = 10 mA.

RATING AND CHARACTERISTIC CURVES (RU3AMS)

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



Note : $I_F = I_{RP}$ = 10 mA to 1 mA

FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

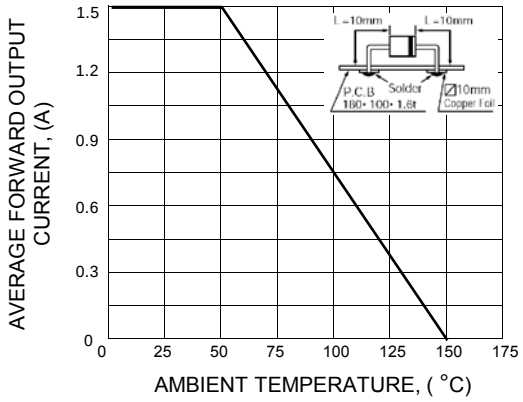


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

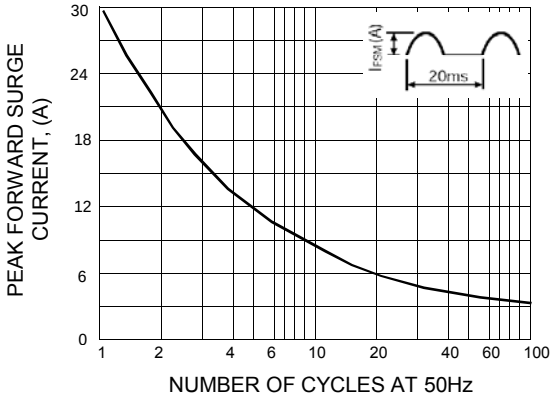


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

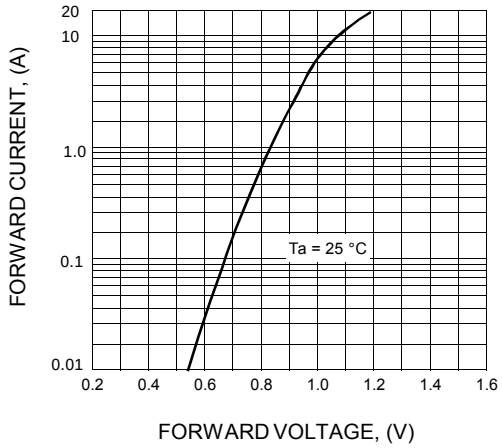


FIG.5 - TYPICAL REVERSE CHARACTERISTICS