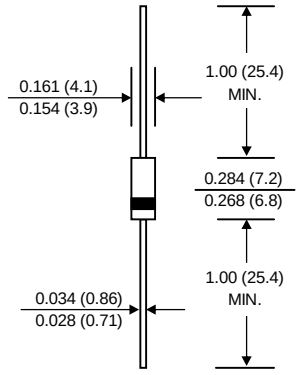
1R5JH45

FAST RECOVERY RECTIFIER DIODE

PRV : 600 Volts
Io : 1.5 Amperes

D2



Dimensions in inches and (millimeters)

FEATURES :

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

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

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 Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum Average Forward Current	$I_{F(AV)}$	1.5	A
Maximum Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	50 (50Hz)	A
		55 (60Hz)	
Maximum Peak Forward Voltage at I_F = 1.5 A	V_F	1.2	V
Maximum Repetitive Peak Reverse Current at V_{RRM}	I_R	100	µA
Maximum Reverse Recovery Time (Note 1)	Trr	200	ns
Thermal Resistance - Junction to Ambient	RθJA	58	°C / W
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 = 1 A, di/dt = -30 A/µs.

RATING AND CHARACTERISTIC CURVES (1R5JH45)

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

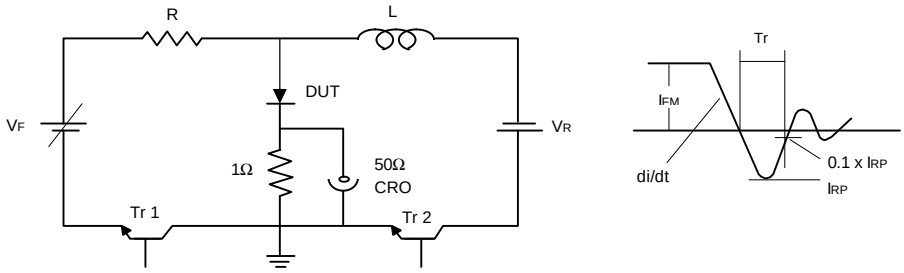


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

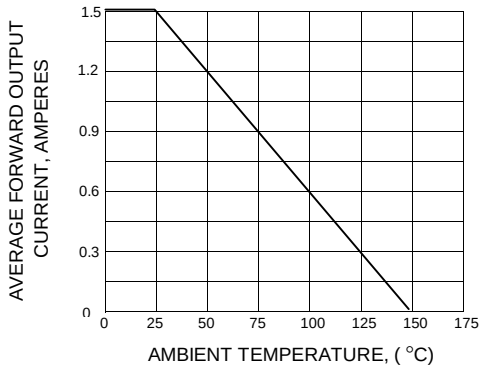


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

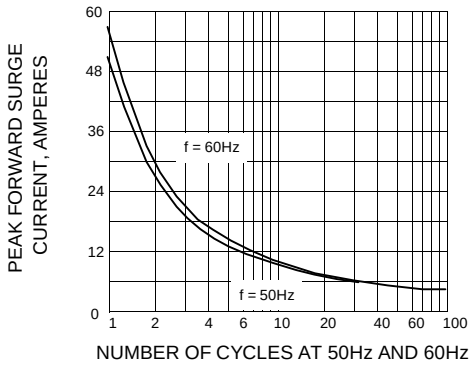


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

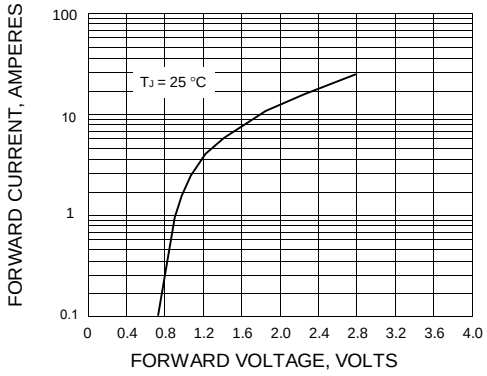


FIG.5 - TYPICAL REVERSE CHARACTERISTICS