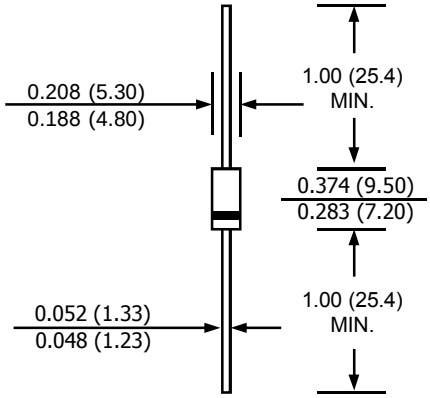
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3TH41

FAST RECOVERY RECTIFIER

PRV : 1500 Volts
Io : 3.0 Amperes

DO - 201AD



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 : DO-201AD 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 : 1.21 grams

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}	1500	V
Maximum Average Forward Current	$I_{F(AV)}$	3.0	A
Maximum Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	50 (50Hz)	A
		55 (60Hz)	
Maximum Peak Forward Voltage at I_F = 3 A	V_F	1.3	V
Maximum Repetitive Peak Reverse Current at V_{RRM}	I_R	10	µA
Maximum Reverse Recovery Time (Note 1)	Trr	1.5	µs
Thermal Resistance - Junction to Ambient	$R_{\Theta JA}$	38	°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 = 0.1A, I_R = 0.1A.

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RATING AND CHARACTERISTIC CURVES (3TH41)

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

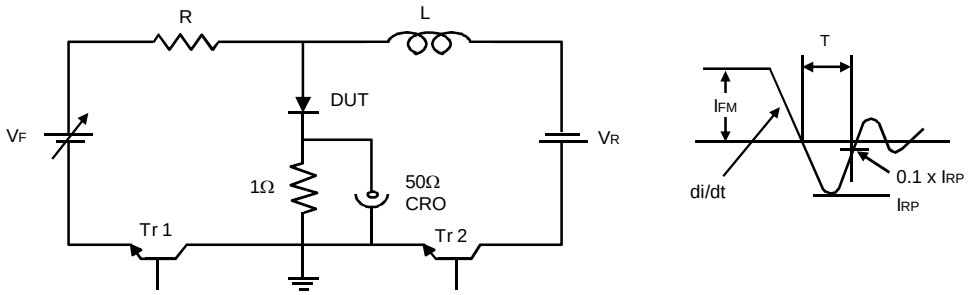


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

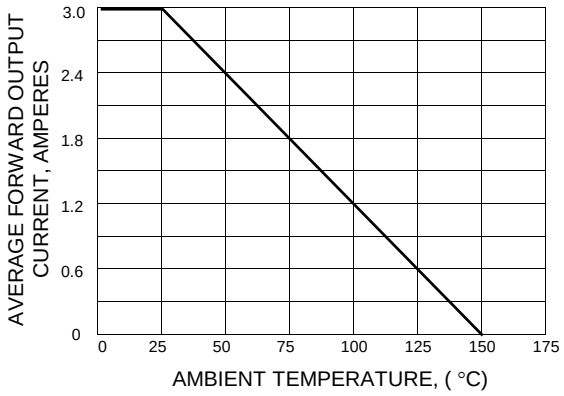


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

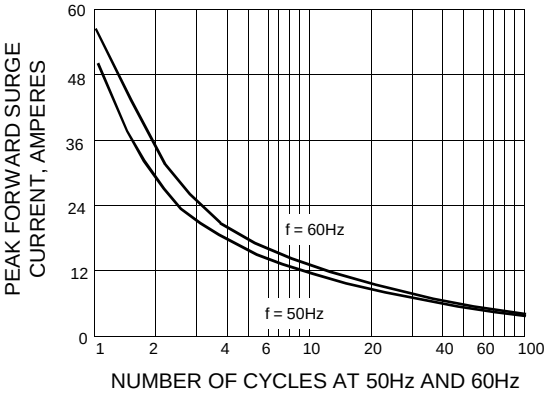


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

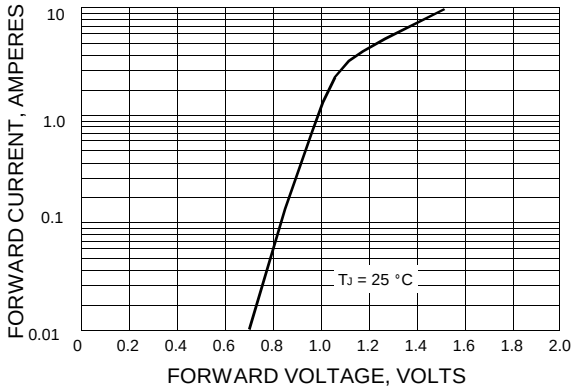
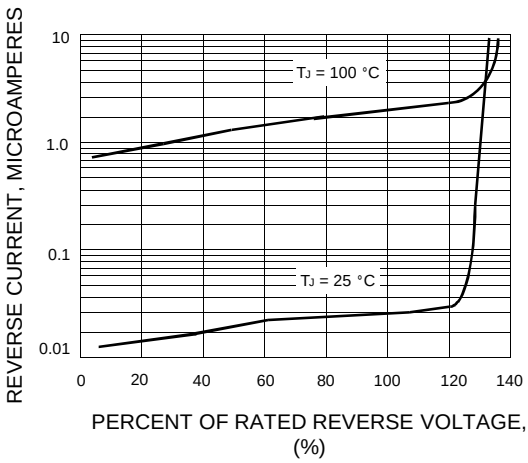


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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