

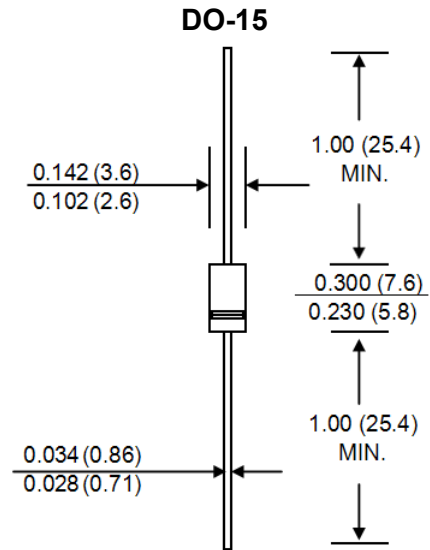
2.0A RECTIFIER DIODE

FEATURES

- Low leakage
- Low forward voltage drop
- High current capability

MECHANICAL DATA

- Case: DO-15
- Case material: Molded plastic. UL flammability
- Classification rating: 94V-0
- Terminal: Terminal: Tin plated, solderable per MIL-STD-202E, method 208C
- Moisture sensitivity: Level 1 per J-STD-020
- Weight: 0.4grams (approximate)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	RL201	RL202	RL203	RL204	RL205	RL206	RL207	Unit
		FR201	FR202	FR203	FR204	FR205	FR206	FR207	
Max. recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Max. RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Max. DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Max. average forward rectified current at $T_A=75^\circ\text{C}$	I_o	2.0							A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	70							A
Typical junction capacitance (note 1)	C_J	20							pF
Typical thermal resistance	$R_{\theta JA}$	40							$^\circ\text{C}/\text{W}$
Operating and storage temperature range	T_J, T_{STG}	-65 to + 175							$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit	Condition	
Max. instantaneous forward voltage	V_F	1.1	V	$I_F=2.0\text{A}$	
Max. DC reverse current	I_R	$T_A=25^\circ\text{C}$	5.0	μA	$V_R=V_{DC}$
		$T_A=100^\circ\text{C}$	50		
Max. full load reverse current average, full cycle		30			$V_R=V_{DC}, T_L=75^\circ\text{C}$ Lead length=.375"(9.5mm)

Note:

1. Measured at 1 MHz and applied reverse voltage of 4.0V;
2. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

2.0A RECTIFIER DIODE

TYPICAL CHARACTERISTICS

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

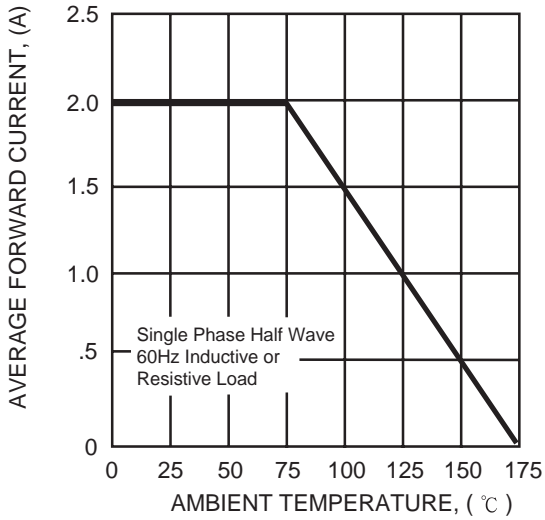


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

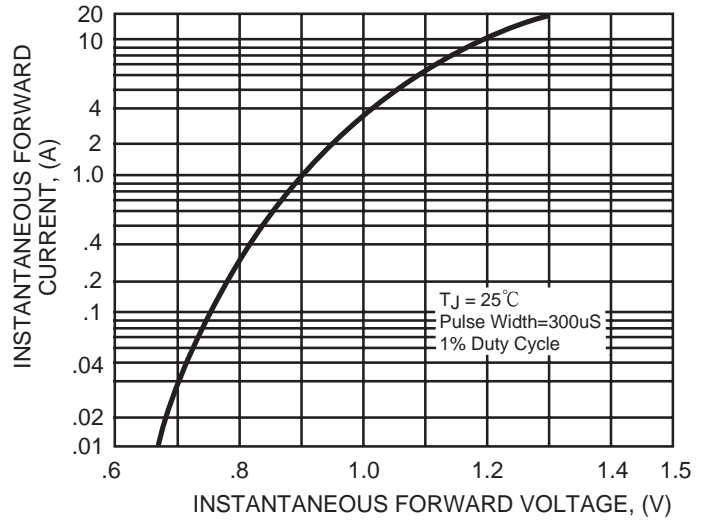


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

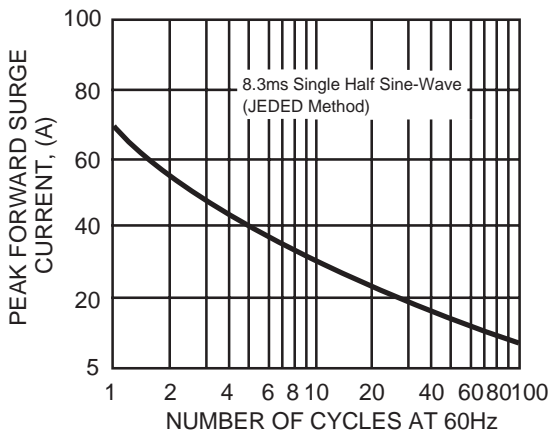


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

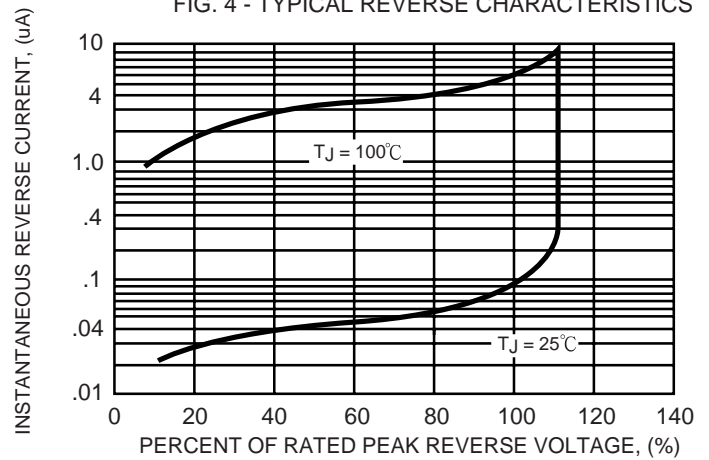


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

