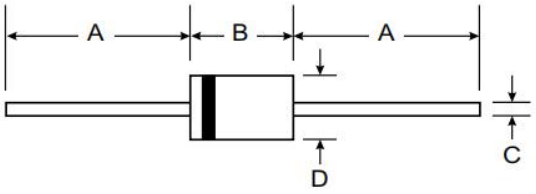
General Purpose Rectifier

Parameter	Value	Unit
V_{RRM}	50~1000	V
$I_{F(AV)}$	2.0	A

DO-15



DO-15		
Dim	**Min**	**Max**
A	25.40	—
B	5.50	7.62
C	0.6	0.8
D	2.60	3.60
All Dimensions in mm		

Features

- Low coat construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260℃/10 secods/.375”(9.5mm)lead length at 5 lbs(2.3kg) tension

Maximum Rated Values (at TJ = 25℃, unless otherwise specified)

Parameter	Symbol	RL201	RL202	RL203	RL204	RL205	RL206	RL207	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375”(9.5mm) lead length at TA= 50℃	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	30							A
Maximum Instantaneous Forward Voltage @2.0A	V_F	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per element TA=25℃	I_R	5.0							μA
Maximum DC Reverse Current at Rated DC Blocking Voltage per element TA=100℃	I_R	50							μA
Maximum Full Load Reverse Current, full cycle average 0.375”(9.5mm)lead length at TL=75℃	$I_{R(AV)}$	30							μA
Typical Junction Capacitance (Note 1)	C_J	20							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							℃/W
Operating Junction Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Note:
1. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.
2. Thermal Resistance from junction to Ambient at .375”(9.5mm)lead length, P.C.board mounted.

Typical Characteristics

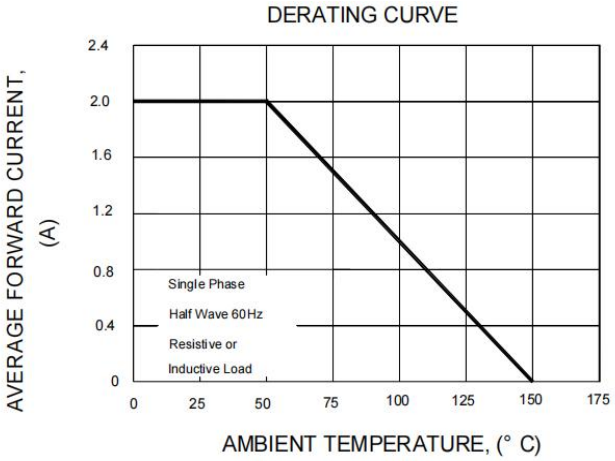


Fig.1-Typical Forward Current Derating Curve

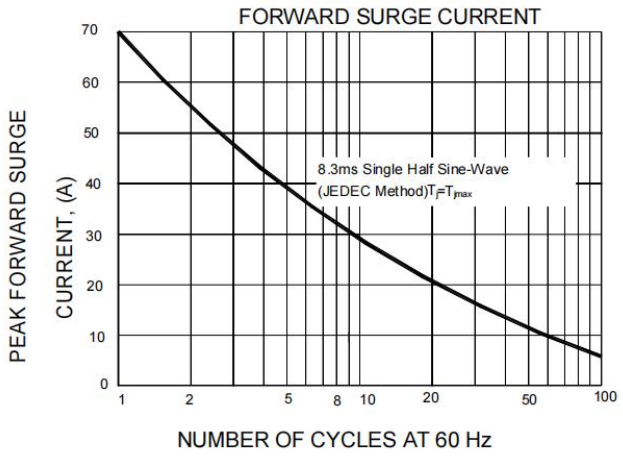


FIG.2-Maximum Non-Repetitive Peak Forward Surge Current

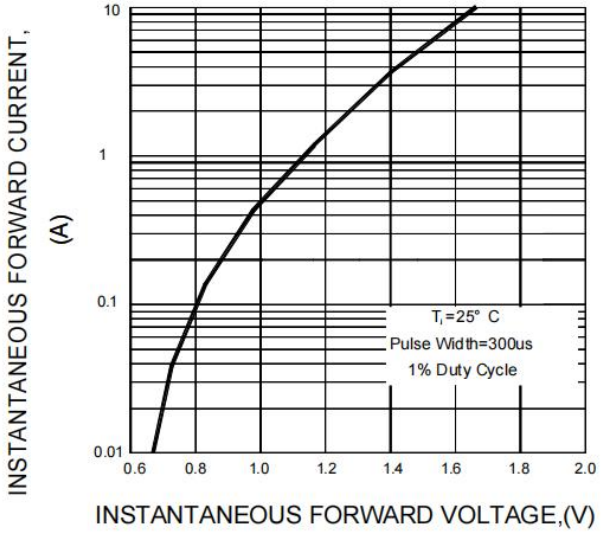


Fig. 3 Typical Instantaneous Forward Characteristics

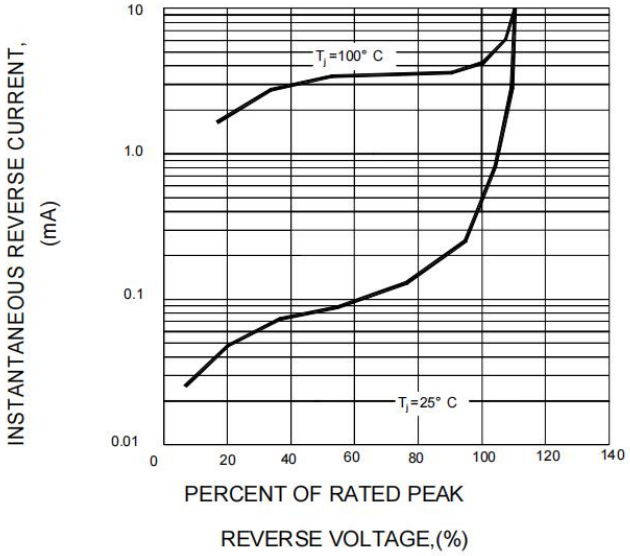


Fig. 4 Typical Reverse Characteristics

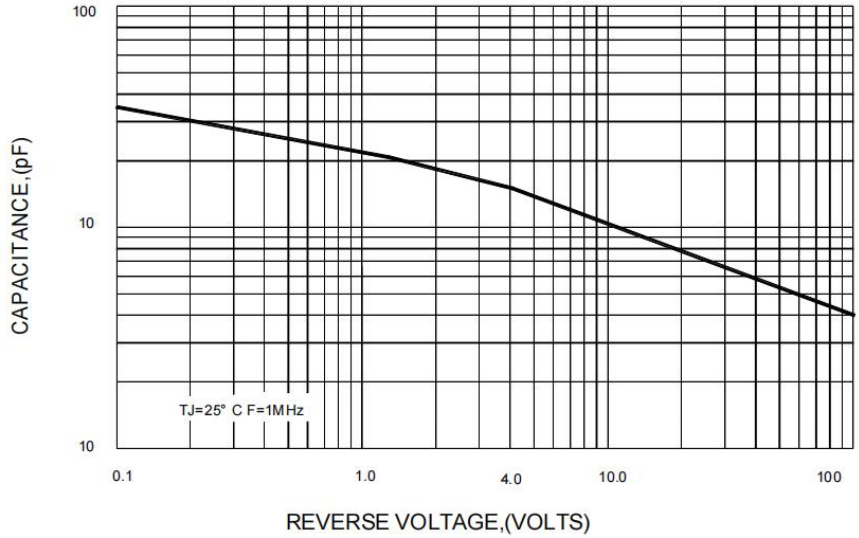


FIG.5 Typical Junction Capacitance

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