Elektronische Bauelemente

RL201G~RL207G

Voltage 50V ~ 1000V

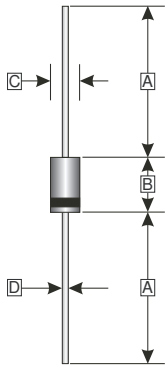
2.0 Amp Glass Passivated Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low forward voltage drop
- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated junction

DO-15



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	5.80	7.62
C	2.60	3.60
D	-	0.90

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25℃Unless otherwise specified）

Parameter		Symbol	Part Number							Unit
			RL 201G	RL 202G	RL 203G	RL 204G	RL 205G	RL 206G	RL 207G	
Maximum Recurrent Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum Instantaneous Forward Voltage Drop per Diode @ I_{FM}=2A		V_{FM}	1.1							V
Average Forward Current @60Hz sine wave, Resistance load, T_A=75℃		$I_{F(AV)}$	2							A
Surge(Non-repetitive)Forward Current @60Hz Half-sine wave,1cycle,T_A=25℃		I_{FSM}	70							A
Maximum DC reverse current at rated DC blocking voltage per diode	T_A=25℃	I_{RRM}	2.5							μA
	T_A=125℃		50							
Typical Junction Capacitance [1]		C_J	35							pF
Typical Thermal Resistance		$R_{\theta JA}$	50							℃ / W
Operating and Storage Temperature Range		T_J, T_{STG}	-55~150							℃

Note:
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

TYPICAL CHARACTERISTIC CURVES

FIG.1: Io-Ta Curve

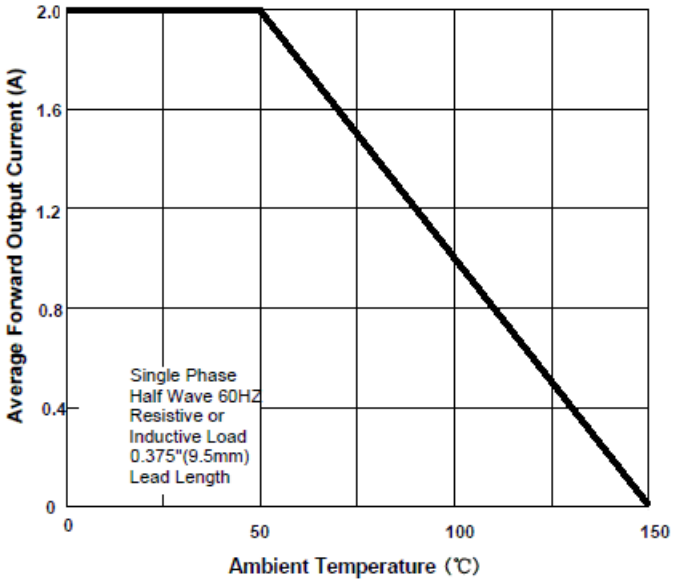


FIG.2: Surge Forward Currrent Capability

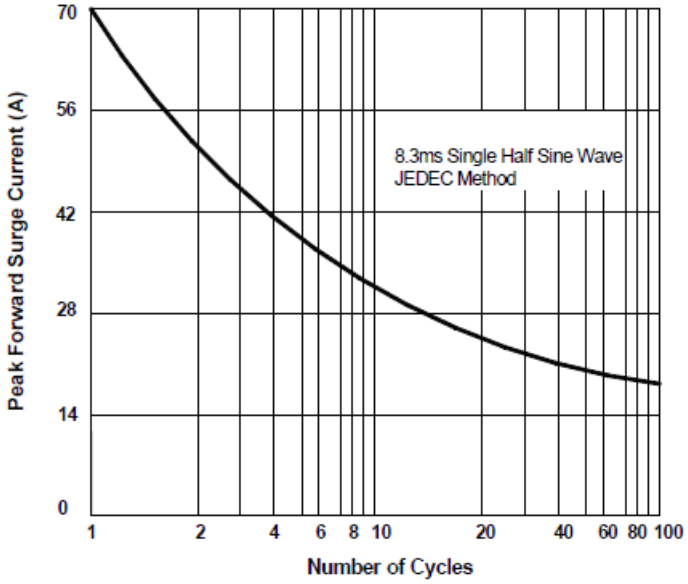


FIG.3: Forward Voltage

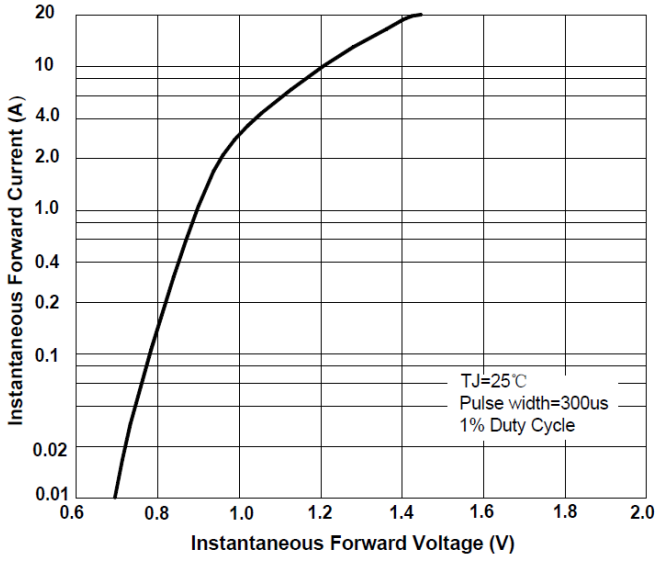


FIG.4: Typical Reverse Characteristics