Elektronische Bauelemente

RL251G~RL257G

Voltage 50V~1000V

2.5Amp General Purpose Rectifier

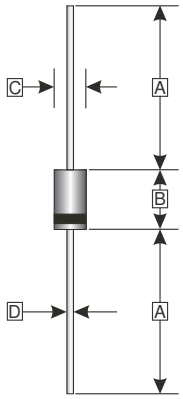
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- High Efficiency
- High Current Capability
- High Reliability
- High Surge Current Capability
- Low Power Loss
- Glass Passivated Chip Junction
- Solder Dip, Per JESD 22-B106

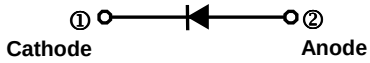
DO-15



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

MECHANICAL DATA

- Molding Compound Meets UL 94 V-0 Flammability Rating
- Terminals: Tin Plated Leads, Solderable Per J-STD-002 and JESD22-B102
- Polarity: Color Band Denotes Cathode End



ORDER INFORMATION

Part Number	Type
RL251G~RL257G	Lead (Pb)-free
RL251G-C~RL257G-C	Lead (Pb)-free and Halogen-free

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

Parameter		Symbol	Part Number							Unit
			RL 251G	RL 252G	RL 253G	RL 254G	RL 255G	RL 256G	RL 257G	
Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Average Forward Current @60Hz Sine Wave, Resistance Load, T_L=80℃		$I_{F(AV)}$	2.5							A
Surge(Non-Repetitive)Forward Current @60Hz Half-Sine Wave,1 Cycle, T_A=25℃		I_{FSM}	120							A
Maximum Instantaneous Forward Voltage Drop Per Diode @I_{FM}=2.5A		V_{FM}	1.1							V
Maximum DC Reverse Current @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 from Junction-Ambient		$R_{\theta JA}$	45							℃/W
Typical Thermal Resistance from Junction-Lead		$R_{\theta JL}$	28							℃/W
Junction and Storage Temperature Range		T_J, T_{STG}	-55~150							℃

Note:

1. Measured at 1MHz and applied reverse voltage of 4V D.C.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1: Io-Ta Curve

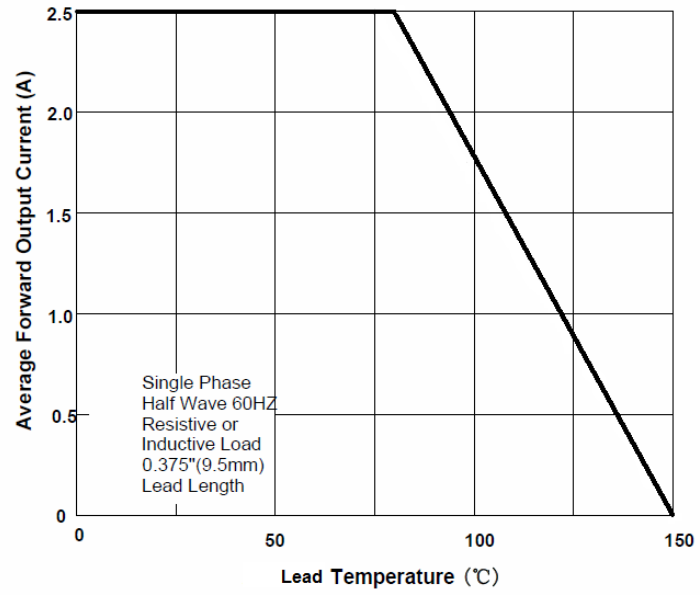

FIG.2: Surge Forward Currrent Capability

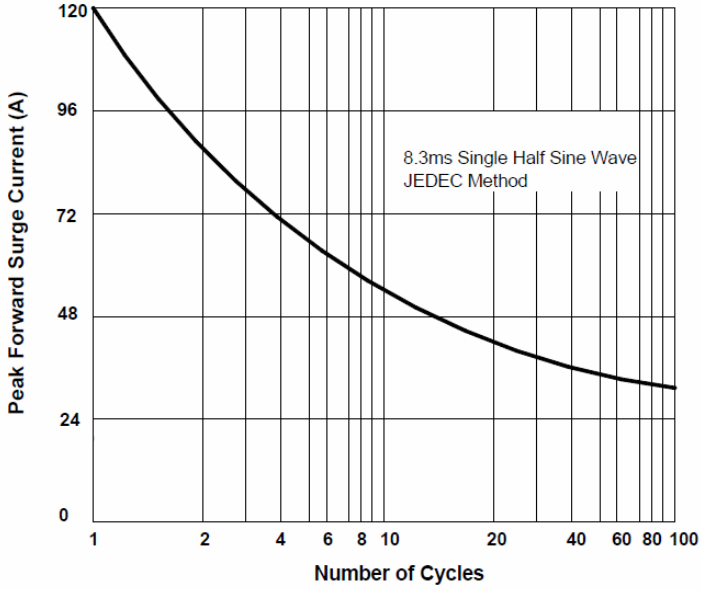

FIG.3: Forward Voltage

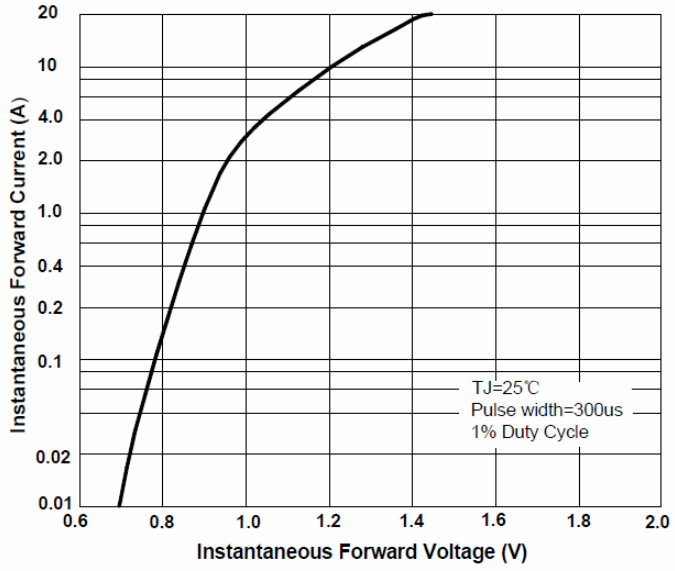

FIG.4: Typical Reverse Characteristics