

■ Features

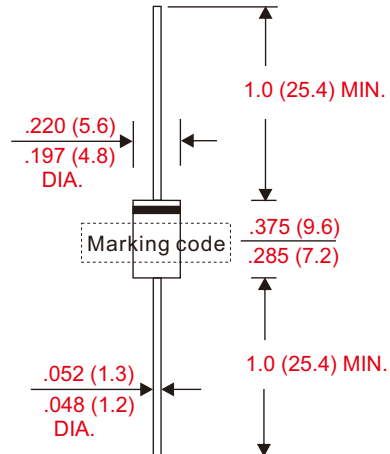
- Axial lead type devices for through hole design.
- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Suffix "G" indicates Halogen-free part, ex. CSRL1060G-A.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, DO-201AD / DO-27
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guranteed
- Polarity : Color band denotes cathode end
- Weight : Approximated 1.10 gram

■ Outline

DO-27(DO-201AD)



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Conditions	Symbol	CSRL1060-A	UNIT
Marking code			CSRL1060	
Peak repetitive reverse voltage		V_{RRM}	60	V
Working peak reverse voltage		V_{RWM}		
DC blocking voltage		V_{RM}		
Forward rectified current		I_O	10	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	180	A
Peak repetitive reverse surge current	2us - 1kHz	I_{RRM}	3	A
Thermal resistance	Junction to case	$R_{\theta JC}$	18	°C/W
Operating and Storage temperature		T_J, T_{STG}	-65 ~ +150	°C

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	$I_F = 10A, T_J = 25^\circ C$	V_F			650	mV
	$I_F = 10A, T_J = 125^\circ C$				560	
	$I_F = 20A, T_J = 25^\circ C$				790	
Reverse current	$V_R = V_{RRM}, T_J = 25^\circ C$	I_R			0.5	mA
	$V_R = V_{RRM}, T_J = 125^\circ C$				100	

■ Rating and characteristic curves

Fig. 1 - Instantaneous Forward Characteristics

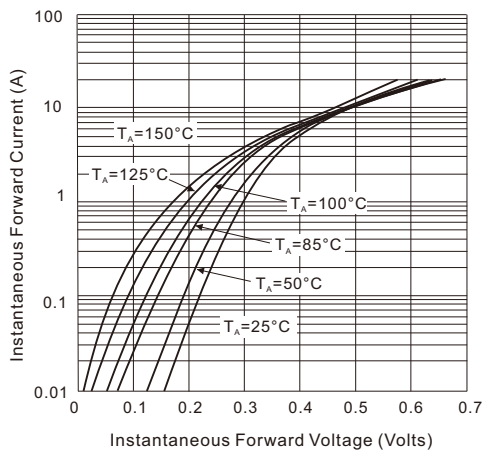


Fig. 2 - Reverse Characteristics

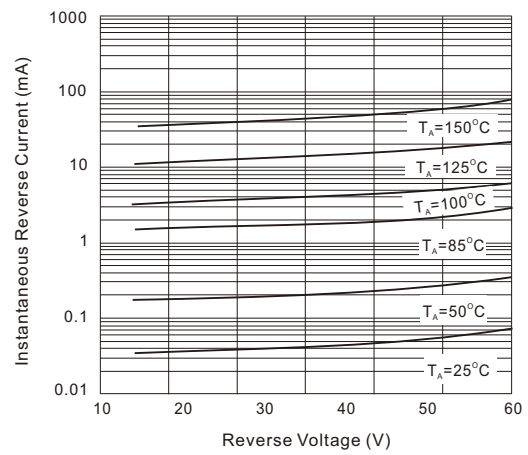
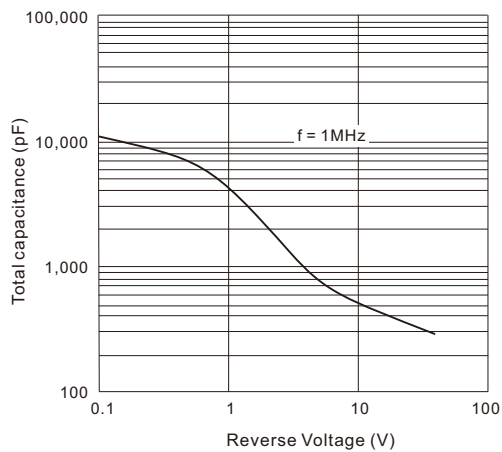


Fig. 3 - Total Capacitance VS. Reverse Voltage



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