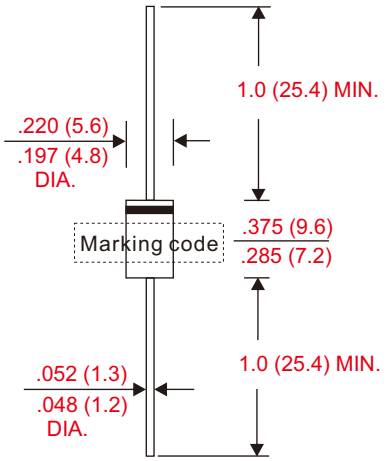
Main Product Characteristics

$I_{F(AV)}$	2x5A
V_{RRM}	60V
T_J	150°C
$V_{(Typ)}$	0.49V

■ Outline

DO-27(DO-201AD)



Dimensions in inches and (millimeters)

■ 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

■ 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 Working peak reverse voltage DC blocking voltage		V_{RRM} V_{RWM} V_{RM}	60	V
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}	-55 ~ +150	°C

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	I_F = 10A, T_J = 25°C	V_F			650	mV
	I_F = 10A, T_J = 125°C			490	560	
	I_F = 20A, T_J = 25°C				790	
Reverse current	V_R = V_{RRM} T_J = 25°C	I_R			0.5	mA
	V_R = V_{RRM} T_J = 125°C				100	

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■ Rating and characteristic curves

Fig. 1 - Instantaneous Forward Characteristics

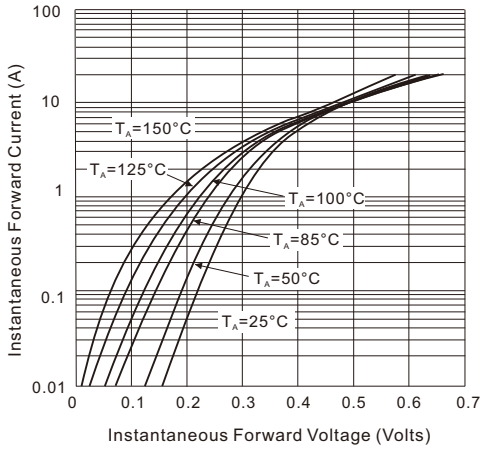


Fig. 2 - Reverse Characteristics

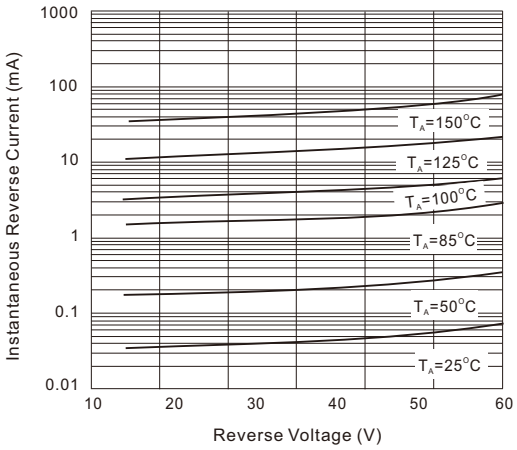
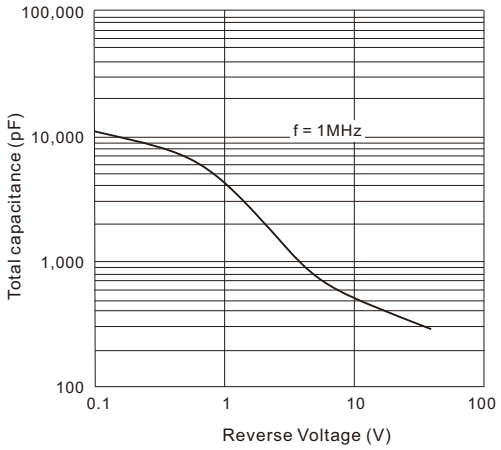


Fig. 3 - Total Capacitance VS. Reverse Voltage



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