

### Main Product Characteristics

$I_{F(AV)}$	5A
$V_{RRM}$	60V
$T_J$	150°C
$V_{(Typ)}$	0.45V

### ■ 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. CSRS560G-A.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

### ■ Mechanical data

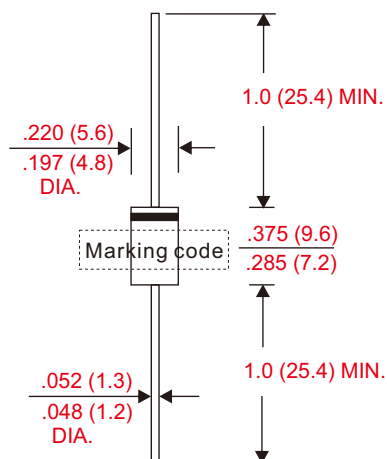
- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, DO-201AD / DO-27
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Weight : Approximated 1.10 gram

### ■ 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%.

### ■ Outline

DO-27(DO-201AD)



Dimensions in inches and (millimeters)

Parameter	Conditions	Symbol	CSRS560-A	UNIT
Marking code			CSRS560	
Peak repetitive reverse voltage		$V_{RRM}$	60	V
Working peak reverse voltage		$V_{RWM}$		
DC blocking voltage		$V_{RM}$		
Forward rectified current		$I_O$	5	A
Peak repetitive reverse surge current	2us - 1kHz	$I_{RRM}$	2	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	200	A
Thermal resistance	Junction to case	$R_{\theta JC}$	20	°C/W
Operating and Storage temperature		$T_J, T_{STG}$	-55 ~ +150	°C

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	$I_F = 5A, T_J = 25^\circ C$	$V_F$			480	mV
	$I_F = 5A, T_J = 125^\circ C$				420	
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

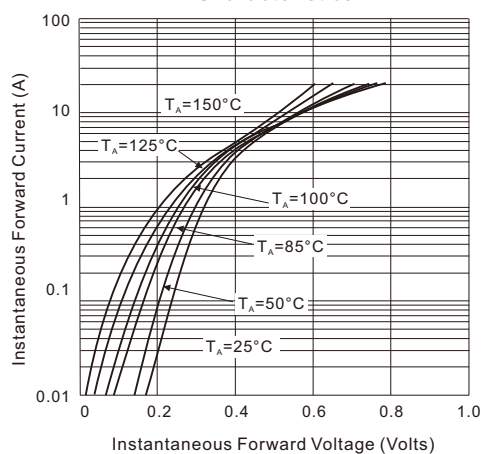


Fig. 2 - Reverse Characteristics

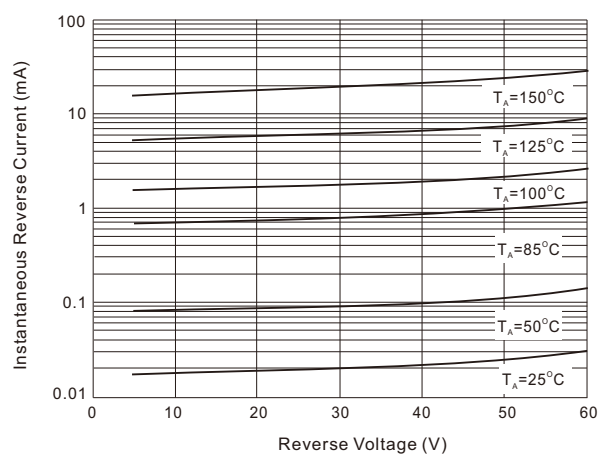
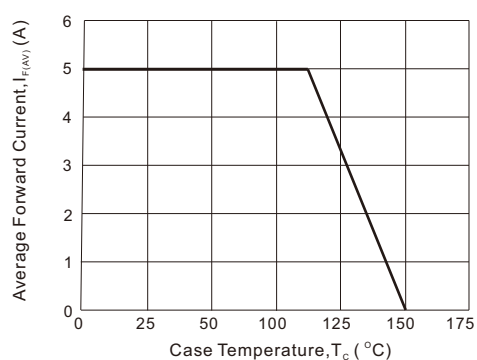


Fig.3 - Forward Current Derating Curve



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