

### ■ Features

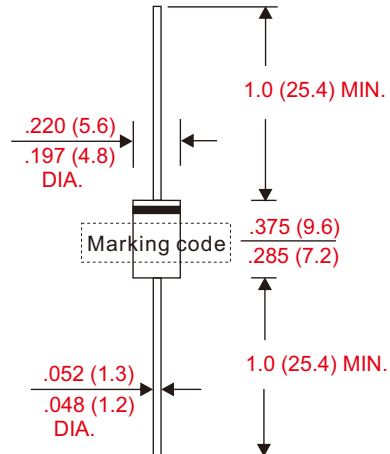
- Axial lead type devices for through hole design.
- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Suffix "H" indicates Halogen-free part, ex.SR5100TH.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

### ■ 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	SR5100T	UNIT
Marking code			SR5100T	
Peak repetitive reverse voltage		$V_{RRM}$	100	V
Working peak reverse voltage		$V_{RWM}$		
DC blocking voltage		$V_{RM}$		
Forward rectified current		$I_O$	5	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	200	A
Peak repetitive reverse surge current	2us - 1kHz	$I_{RRM}$	1	A
Thermal resistance	Junction to case	$R_{\theta JC}$	20	°C/W
Operating and Storage temperature		$T_J, T_{STG}$	-65 ~ +175	°C

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	$I_F = 2A, T_J = 25^\circ C$	$V_F$		510		mV
	$I_F = 5A, T_J = 25^\circ C$				700	
	$I_F = 5A, T_J = 125^\circ C$				600	
Reverse current	$V_R = V_{RRM}, T_J = 25^\circ C$	$I_R$			0.1	mA
	$V_R = V_{RRM}, T_J = 125^\circ C$				100	

■ Rating and characteristic curves

Fig. 1 - Forward Current Derating Curve

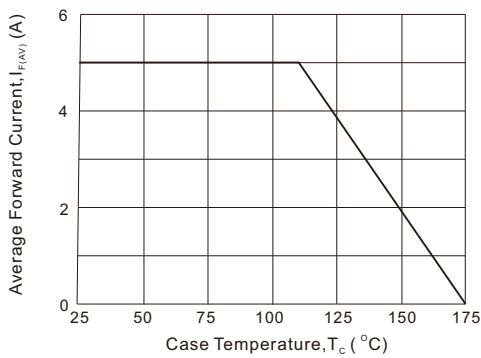


Fig. 2 - Instantaneous Forward Characteristics

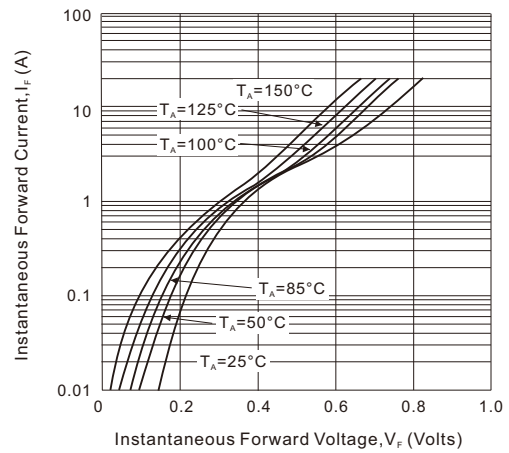
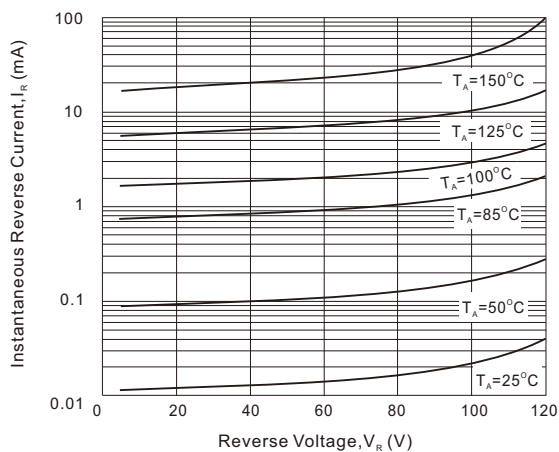


Fig. 3 - Reverse Characteristics



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