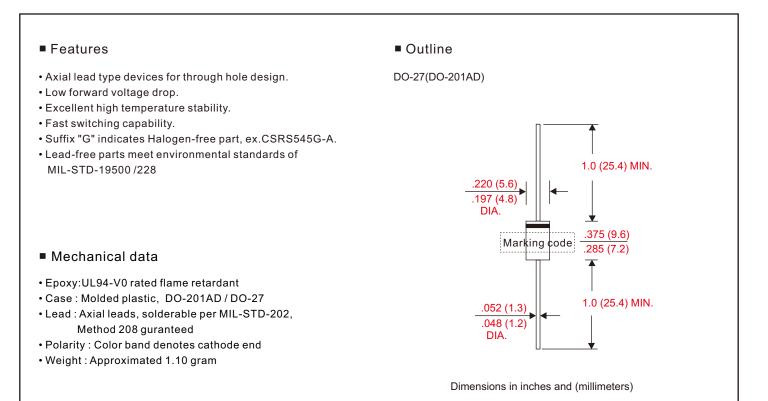
# citc

# CSRS545-A

#### 5A Lead Type Super Low Barrier Diode



#### Maximum ratings and electrical characteristics

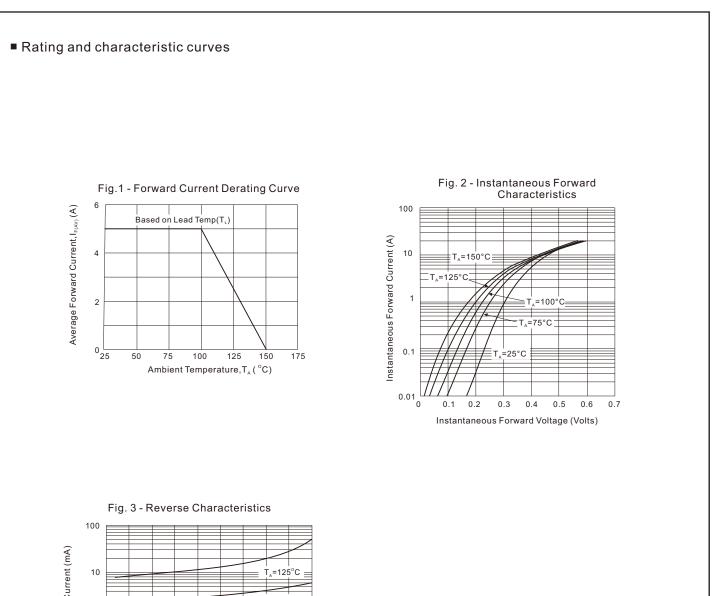
Rating at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

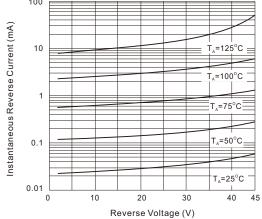
Parameter	Conditions	Symbol	CSRS545-A		UNIT	
Marking code			CSRS545			
Peak repetitive reverse voltage		V <sub>RRM</sub>				
Working peak reverse voltage		V <sub>RWM</sub>	45		V	
DC blocking voltage		V <sub>RM</sub>				
Forward rectified current		I <sub>o</sub>	5			A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I <sub>fsm</sub>	200		А	
Peak repetitive reverse surge current	2us - 1kHz	I <sub>RRM</sub>	2			A
Thermal resistance	Junction to case	$R_{\scriptscriptstyle  ext{\tiny BJC}}$	20		°C/W	
Operating and Storage temperature		$T_{J},T_{stg}$	-65 ~ +150			°C
Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	$I_{F} = 5A, T_{J} = 25^{\circ}C$	V <sub>F</sub>			440	mV
	$I_{F} = 5A, T_{J} = 125^{\circ}C$				380	
Reverse current	$V_{R} = V_{RRM} T_{J} = 25^{\circ}C$	- I <sub>R</sub>			0.5	mA
	$V_{R} = V_{RRM} T_{J} = 125^{\circ}C$				100	



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