

Chip Integration Technology Corporation

Super Low Barrier High Voltage Power Rectifier

Main Product Characteristics

I _{F(AV)}	5A
V_{RRM}	200V
T _J	175°C
$V_{(Typ)}$	0.66V

■ Features

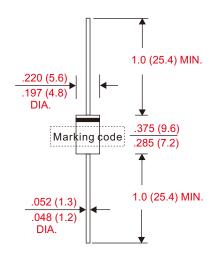
- Axial lead type devices for through hole design.
- Low forward voltage drop.
- Excellent high temperature stability.
- · Fast switching capability.
- Suffix "G" indicates Halogen-free part, ex.CSR5200G-A.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ 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	CSR5200-A	LINIT	
Marking code			CSR5200	UNIT	
Peak repetitive reverse voltage		V _{RRM}			
Working peak reverse voltage		V _{RWM}	200	V	
DC blocking voltage		V _{RM}			
Forward rectified current		Io	5	Α	
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	125	Α	
Thermal resistance	Junction to case	R _{eJC}	20	°C/W	
Operating and Storage temperature		T _J , T _{STG}	-55 ~ +175	°C	

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward voltage drop	$I_F = 5A, T_J = 25^{\circ}C$.,,			900	mV
	I _F = 5A, T _J = 125°C	V _F		660		
Reverse current	$V_R = V_{RRM} T_J = 25^{\circ}C$				0.1	mA
	$V_R = V_{RRM} T_J = 125^{\circ}C$	I _R			20	

Document ID : DS-11KF6 Revised Date : 2015/08/11

Revision : C1

■ Rating and characteristic curves

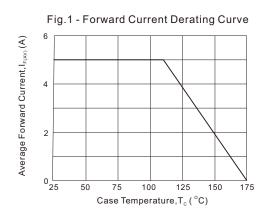


Fig. 2 - Instantaneous Forward Characteristics

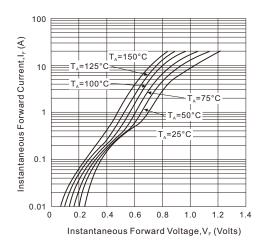
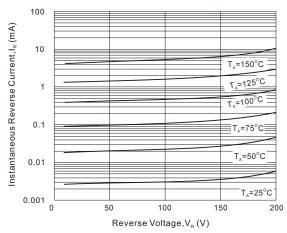


Fig. 3 - Reverse Characteristics



Document ID : DS-11KF6 Revised Date : 2015/08/11

Revision : C1



Chip Integration Technology Corporation

Super Low Barrier High Voltage Power Rectifier

- CITC reserves the right to make changes to this document and its products and specifications at any time without notice.
- Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- CITC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does CITC assume any liability for application assistance or customer product design.
- CITC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.
- No license is granted by implication or otherwise under any intellectual property rights of CITC.
- CITC products are not authorized for use as critical components in life support devices or systems without express written approval of CITC.

http://www.citcorp.com.tw/

Tel:886-3-5600628

Fax:886-3-5600636

Add:Rm. 3, 2F., No.32, Taiyuan St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)

Document ID : DS-11KF6 Revised Date : 2015/08/11

Revision : C1