# CSP20C04/CSB20C04



**PRELIMINARY** 

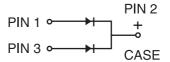
### 20 AMPS. SCHOTTKY BARRIER RECTIFIERS

#### **FEATURES**

- Metal of silicon rectifier , major carrier conduction
- Low power loss. high efficient
- High current capability, low V<sub>F</sub>







### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Tc=25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Maximum Recurrent Peak Voltage	VRRM	40	٧
Maximum RMS Voltage	VRMS	28	V
Maximum DC Blocking Voltage	VDC	40	V
Maximum Average Forward Rectified Current at Tc=95°C	<b>I</b> F(AV)	20	А
Peak Forward SurgeCurrent, 8.3ms single half sine- wave superimposed on rated load (JEDEC Method)	<b>I</b> FSM	250	А
Maximum Forward Voltage a IF=8A, Tc=25°C	VF	0.60	V
Maximum Reverse Current at Peak Reverse Voltage <sup>a</sup>	<b>I</b> R	1	mA
Typical Thermal Resistance, Junction-to-Case	$R_{ heta}$ JC	2	°C/W
Typical Junction Capacitance, V <sub>R</sub> =4V	CJ	650	pF
Maximum Operating Junction Temperature	TJ	-65 to 125	°C
Maximum Storage Temperature	Тѕтс	-65 to 150	°C

NOTEE:a. Test Pulse Width 300us, Duty Cyale 2%

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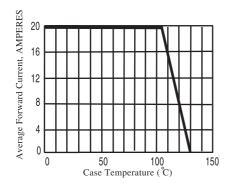


Figure 1. Forward Current Derating Curve

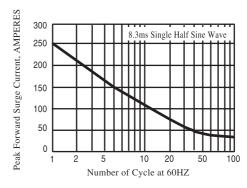
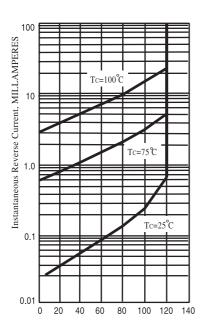
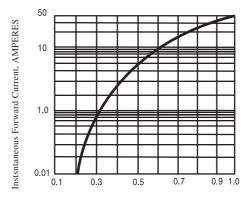


Figure 3. Maximum Non-Repetitive Surge Current



Percent of Rated Voltage Peak Reverse Voltage

Figure 2. Typical Reverse Characteristics



Instantaneous Forward Voltage (V)

Figure 4. Typical Instantaneous Forward Characteristics

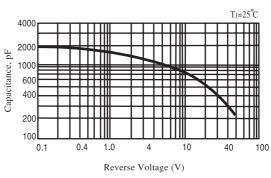


Figure 5. Typical Junction Capacitance