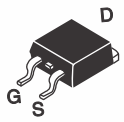
# CSP16C04/CSB16C04

PRELIMINARY

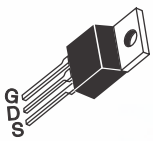
## 16 AMPS. SCHOTTKY BARRIER RECTIFIERS

### FEATURES

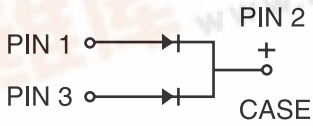
- Metal of silicon rectifier , major carrier conduction
- Low power loss. high efficient
- High current capability, low $V_F$




CEB SERIES
TO-263(DD-PAK)




CEP SERIES
TO-220




### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

**($T_C$=25°C unless otherwise noted)**

| Parameter | Symbol | Limit | Unit |
|---|---|---|---|
| Maximum Recurrent Peak Voltage | $V_{RRM}$ | 40 | V |
| Maximum RMS Voltage | $V_{RMS}$ | 28 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 40 | V |
| Maximum Average Forward Rectified Current at Tc=95°C | $I_{F(AV)}$ | 16 | A |
| Peak Forward SurgeCurrent, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$ | 250 | A |
| Maximum Forward Voltage [a] $I_F$=8A, $T_C$=25°C | $V_F$ | 0.62 | V |
| Maximum Reverse Current at Peak Reverse Voltage [a] | $I_R$ | 0.5 | mA |
| Typical Thermal Resistance, Junction-to-Case | $R_{\theta JC}$ | 3 | °C/W |
| Typical Junction Capacitance, $V_R$=4V | $C_J$ | 700 | pF |
| Maximum Operating Junction Temperature | $T_J$ | -65 to 125 | °C |
| Maximum Storage Temperature | $T_{STG}$ | -65 to 150 | °C |

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

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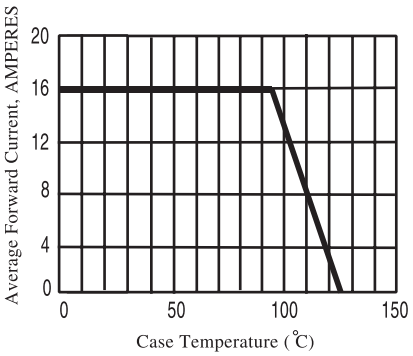


**Figure 1. Forward Current Derating Curve**

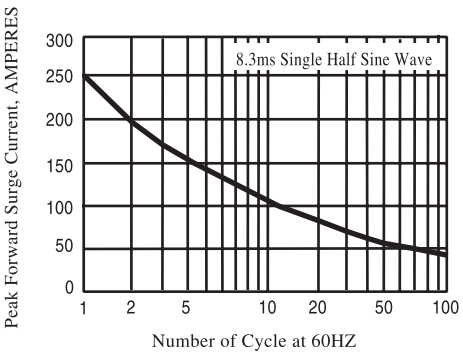


**Figure 3. Maximum Non-Repetitive Surge Current**

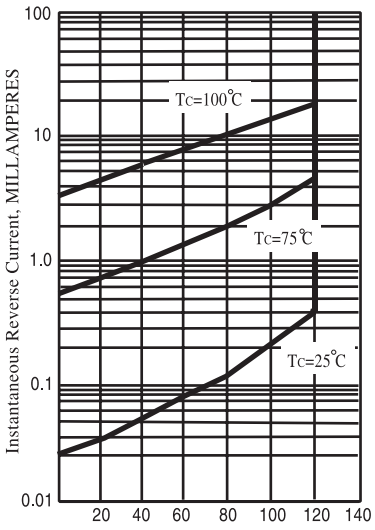


**Figure 2. Typical Reverse Characteristics**

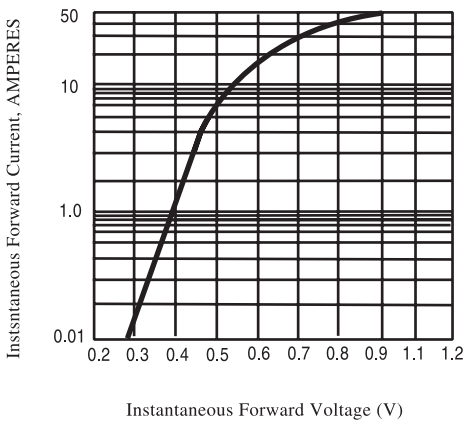


**Figure 4. Typical Instantaneous Forward Characteristics**

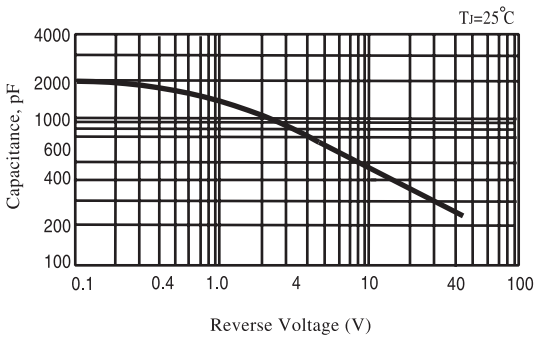


**Figure 5. Typical Junction Capacitance**

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