DESCRIPTION:
The CENTRAL SEMICONDUCTOR CMSSH-3 series devices are silicon Schottky diodes, epoxy molded in an SOT-323 surface mount package, designed for fast switching applications requiring a low forward voltage drop.

CMSSH-3:
- SINGLE

CMSSH-3A:
- DUAL, COMMON ANODE
- MARKING CODE: B1D

CMSSH-3C:
- DUAL, COMMON CATHODE
- MARKING CODE: B2D

CMSSH-3S:
- DUAL, IN SERIES
- MARKING CODE: A5D

MAXIMUM RATINGS: (TA=25°C)

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>V_{RRM}</td>
<td>30 V</td>
</tr>
<tr>
<td>I_F</td>
<td>100 mA</td>
</tr>
<tr>
<td>I_{FRM}</td>
<td>200 mA</td>
</tr>
<tr>
<td>I_{FSM}</td>
<td>750 mA</td>
</tr>
<tr>
<td>P_D</td>
<td>275 mW</td>
</tr>
<tr>
<td>T_J, T_{stg}</td>
<td>-65 to +150 °C</td>
</tr>
<tr>
<td>Θ_{JA}</td>
<td>455 °C/W</td>
</tr>
</tbody>
</table>

ELECTRICAL CHARACTERISTICS PER DIODE: (TA=25°C unless otherwise noted)

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>TEST CONDITIONS</th>
<th>MIN</th>
<th>TYP</th>
<th>MAX</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>I_R</td>
<td>V_R=25V</td>
<td>90</td>
<td>500</td>
<td>nA</td>
<td></td>
</tr>
<tr>
<td>I_R</td>
<td>V_R=25V, T_A=100°C</td>
<td>25</td>
<td>100</td>
<td>μA</td>
<td></td>
</tr>
<tr>
<td>B_{VR}</td>
<td>I_R=100μA</td>
<td>30</td>
<td></td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>V_F</td>
<td>I_F=2.0mA</td>
<td>0.29</td>
<td>0.33</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>V_F</td>
<td>I_F=15mA</td>
<td>0.37</td>
<td>0.45</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>V_F</td>
<td>I_F=100mA</td>
<td>0.51</td>
<td>1.00</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>C_J</td>
<td>V_R=1.0V, f=1.0MHz</td>
<td>7.0</td>
<td></td>
<td></td>
<td>pF</td>
</tr>
<tr>
<td>I_{rr}</td>
<td>I_R/I_F=10mA, I_{rr}=1.0mA, R_L=100Ω</td>
<td>5.0</td>
<td></td>
<td></td>
<td>ns</td>
</tr>
</tbody>
</table>
TYPICAL ELECTRICAL CHARACTERISTICS

Leakage Current

Forward Voltage

Capacitance

Forward Dynamic Impedance

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT
Central’s operations team provides the highest level of support to insure product is delivered on-time.
- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES
Central’s applications engineering team is ready to discuss your design challenges. Just ask.
- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING
1. If requesting Tin/Lead plated devices, add the suffix “TIN/LEAD” to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix “PBFREE” to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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