

CMSSH-3
CMSSH-3A
CMSSH-3C
CMSSH-3S

SUPER-MINI
SCHOTTKY DIODES




SOT-323 CASE

CentralTM

Semiconductor Corp.

DESCRIPTION

The CENTRAL SEMICONDUCTOR CMSSH-3 Series types are Silicon Schottky diodes, epoxy molded in a super-mini surface mount package, designed for fast switching applications requiring a low forward voltage drop.

The following configurations are available:

| | |
|----------|----------------------|
| CMSSH-3 | SINGLE |
| CMSSH-3A | DUAL, COMMON ANODE |
| CMSSH-3C | DUAL, COMMON CATHODE |
| CMSSH-3S | DUAL, IN SERIES |

| |
|--------------------------|
| MARKING CODE: 95D |
| MARKING CODE: B1D |
| MARKING CODE: B2D |
| MARKING CODE: A5D |

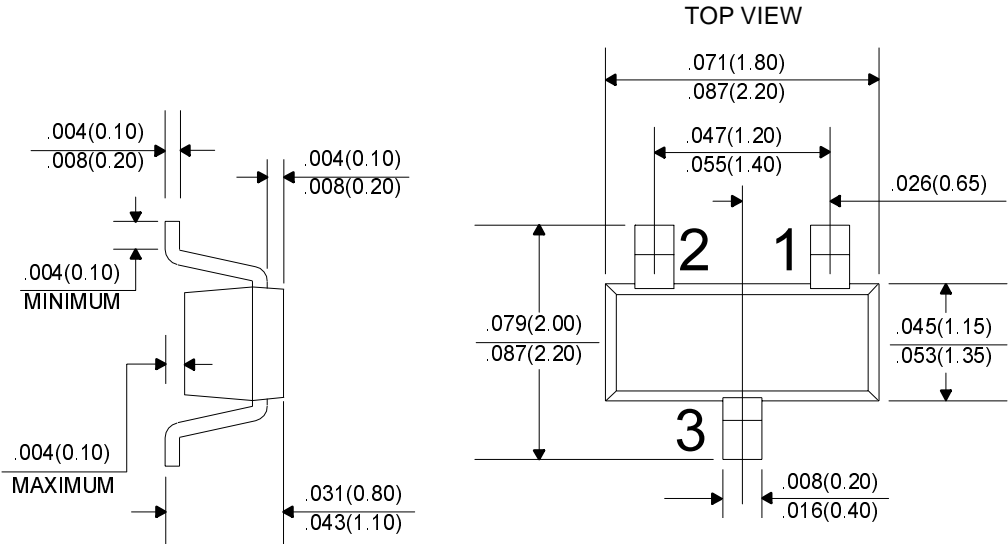
MAXIMUM RATINGS (T_A=25°C)

| | SYMBOL | | UNITS |
|---------------------------------|-----------------------------------|-------------|-------|
| Peak Repetitive Reverse Voltage | V _{RRM} | 30 | V |
| Continuous Forward Current | I _F | 100 | mA |
| Peak Repetitive Forward Current | I _{FRM} | 350 | mA |
| Forward Surge Current, tp=10ms | I _{FSM} | 750 | mA |
| Power Dissipation | P _D | 250 | mW |
| Operating and Storage | | | |
| Junction Temperature | T _J , T _{stg} | -65 to +150 | °C |
| Thermal Resistance | θ _{JA} | 500 | °C/W |

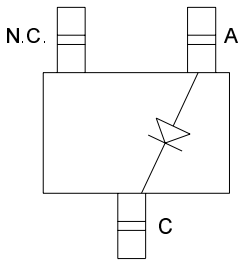
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
|------------------|--|-----|------|------|------|
| B _V R | I _R =100μA | 30 | | | V |
| V _F | I _F =2.0mA | | 0.29 | 0.33 | V |
| V _F | I _F =15mA | | 0.40 | 0.45 | V |
| V _F | I _F =100mA | | 0.74 | 1.00 | V |
| I _R | V _R =25V | | 90 | 500 | nA |
| I _R | V _R =25V, T _A =100°C | | 25 | 100 | μA |
| C _T | V _R =1.0V, f=1 MHz | | 7.0 | | pF |
| t _{rr} | I _F =I _R =10mA, I _{rr} =1.0mA, R _L =100Ω | | | 5.0 | ns |

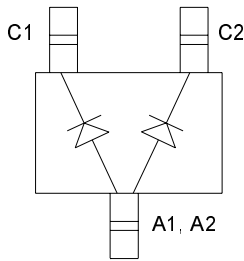
All Dimensions in Inches (mm).



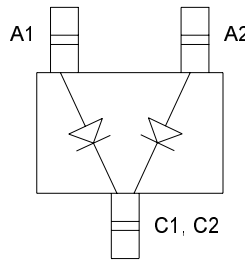
Lead Code



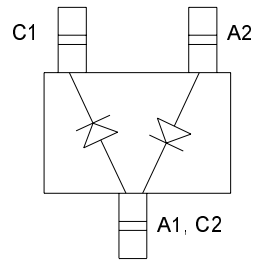
CMSSH-3



CMSSH-3A



CMSSH-3C



CMSSH-3S