

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

DESCRIPTION

- Small Surface Mounting Type
- High Reliability

APPLICATION

- High speed switching for detection
- For portable equipment: (i.e. Mobile phone, MP3, MD, CD-ROM, DVD-ROM, Note book PC, etc.)

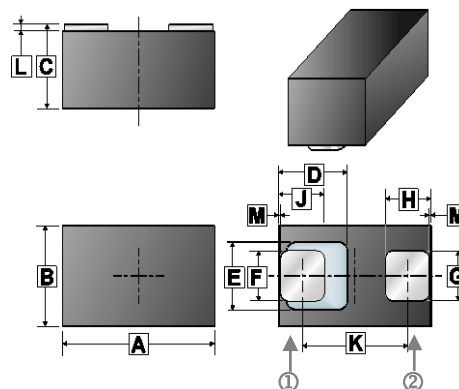
MARKING



PACKAGE INFORMATION

| Package | MPQ | Leader Size |
|---------|-----|-------------|
| DFNWB | 10K | 7 inch |

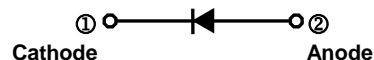
DFNWB



| REF. | Millimeter | | REF. | Millimeter | |
|------|------------|------|------|------------|-------|
| | Min. | Max. | | Min. | Max. |
| A | 0.95 | 1.05 | G | 0.25 | 0.35 |
| B | 0.55 | 0.65 | H | 0.25 | 0.35 |
| C | 0.44 | 0.55 | J | 0.37 | 0.47 |
| D | 0.470 REF. | | K | 0.555 | 0.655 |
| E | 0.420 REF. | | L | 0.010 | 0.100 |
| F | 0.27 | 0.37 | M | 0.030 REF. | |

ORDER INFORMATION

| Part Number | Type |
|-------------|---------------------------------|
| SCS521DS-C | Lead (Pb)-free and Halogen-free |



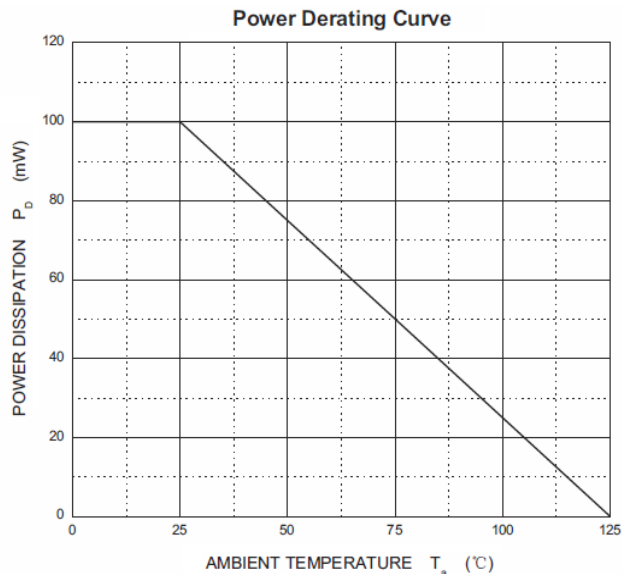
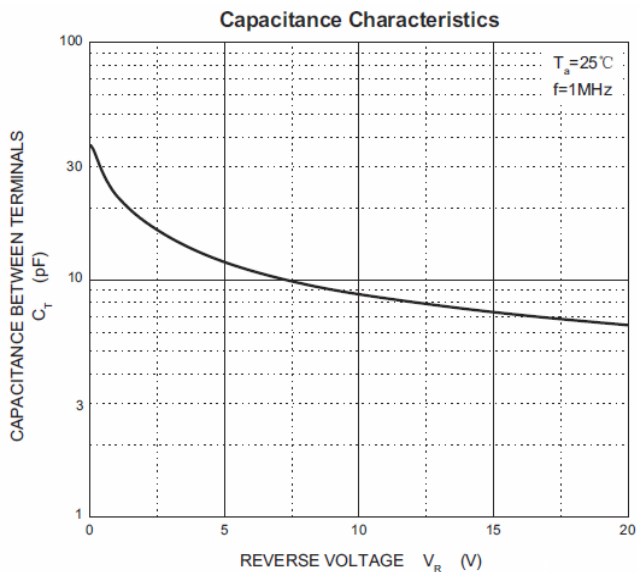
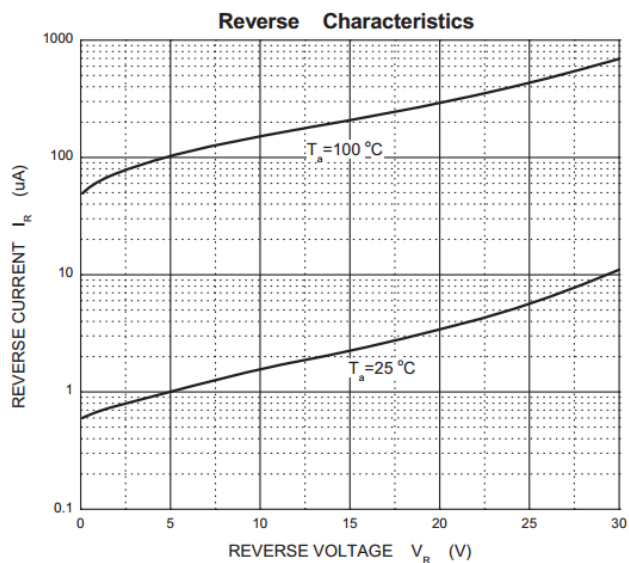
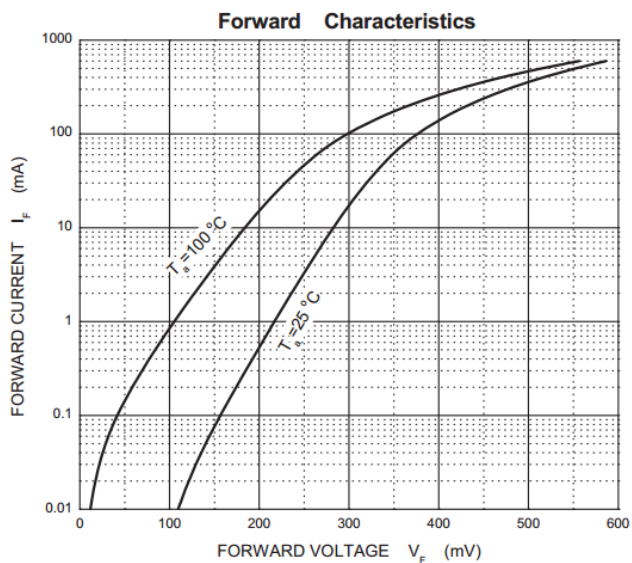
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Single Diode at T_A=25°C)

| Parameter | Symbol | Ratings | Unit |
|--|-----------------------------------|--------------|------|
| DC Reverse Voltage | V _R | 30 | V |
| Mean Rectifying Current | I _o | 200 | mA |
| Non-Repetitive Peak Forward Surge Current @t=8.3ms | I _{FSM} | 1 | A |
| Power Dissipation | P _D | 100 | mW |
| Thermal Resistance, Junction-Ambient | R _{θJA} | 1000 | °C/W |
| Junction & Storage Temperature Range | T _J , T _{STG} | 125, -55~150 | °C |

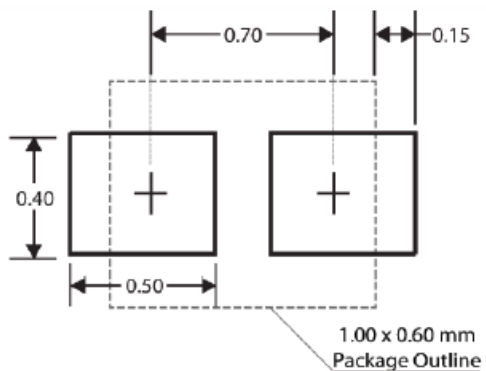
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

| Parameters | Symbol | Min. | Typ. | Max. | Unit | Test Conditions |
|-----------------|----------------|------|------|------|------|-----------------------|
| Forward Voltage | V _F | - | - | 0.35 | V | I _F =10mA |
| | | - | - | 0.5 | | I _F =200mA |
| Reverse Current | I _R | - | - | 10 | uA | V _R =10V |

RATINGS AND CHARACTERISTIC CURVES



Mounting Pad Layout



*Dimensions in millimeters