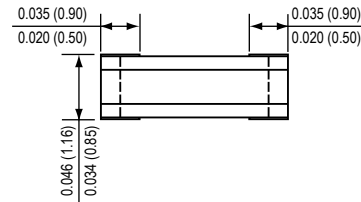
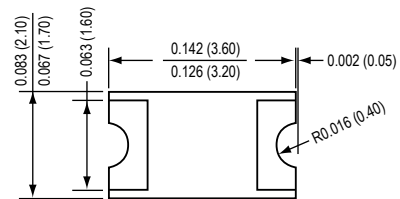


A suffix of "-C" specifies halogen & lead-free

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier , majority carrier conduction
- Low power loss , High efficiency
- High current capability
- High surge capacity
- RoHS Compliant Product

1206 (SOD-123)



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case : Packed with FRP substrate and epoxy underfilled

Terminals : Solder plated , solderable per MIL-STD-750, Method 2026

Polarity : Laser marking

Weight : 0.02 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| TYPE NUMBER | SYMBOLS | SCD5393S | SCD5395S | SCD5397S | SCD5398S | SCD5399S | UNIT |
|---|------------|------------|----------|----------|----------|----------|------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 200 | 400 | 600 | 800 | 1000 | V |
| Working Peak Reverse Voltage | V_{RMS} | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum DC Blocking Voltage | V_{DC} | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current | $I_{(AV)}$ | 1 | | | | | A |
| Peak Forward Surge Current, T=500uS Repetitive for 4 around superimposed on rated load (JEDEC method) | I_{FSM} | 120 | | | | | A |
| Maximum Instantaneous Forward Voltage at 1.0A | V_F | 1 | | | | | V |
| Maximum DC Reverse Current (Note1) Ta=25°C | I_R | 1 | | | | | uA |
| at Rated DC Blocking Voltage Ta=100°C | | 30 | | | | | |
| Maximum reverse recovery time | T_{rr} | 3000 | | | | | nS |
| Typical Junction Capacitance (Note1) | C_j | 12 | | | | | pF |
| Operating Temperature Range | T_J | -50 ~ +125 | | | | | °C |
| Storage Temperature Range | T_{STG} | -65 ~ +150 | | | | | °C |

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

2. Marking:

- SCD5393S : 17ZD
- SCD5395S : 17ZG
- SCD5397S : 17ZJ
- SCD5398S : 17ZK
- SCD5399S : 17ZM

FIG.1 - FORWARD CURRENT DERATING CURVE

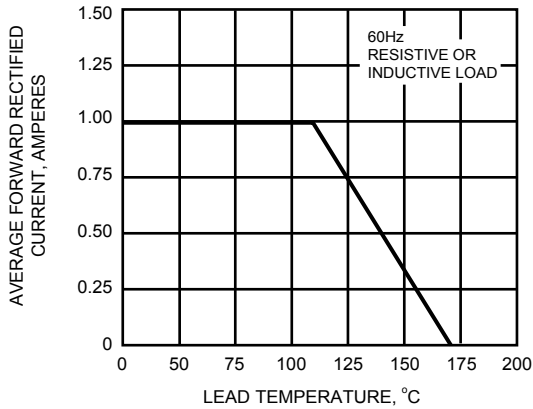


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

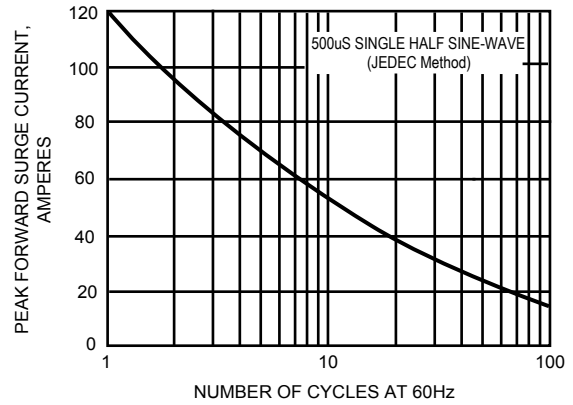


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

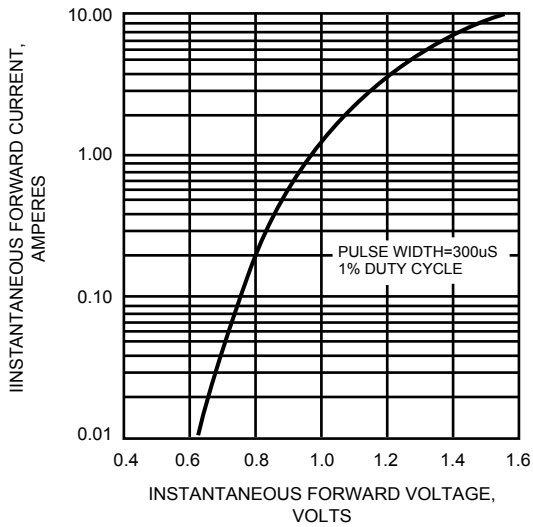


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

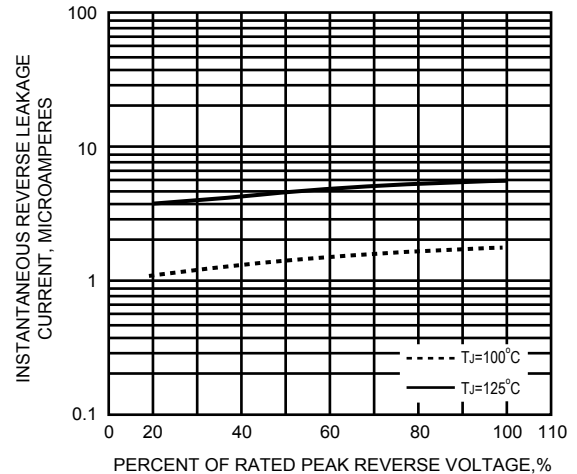


FIG.5 - TYPICAL JUNCTION CAPACITANCE

