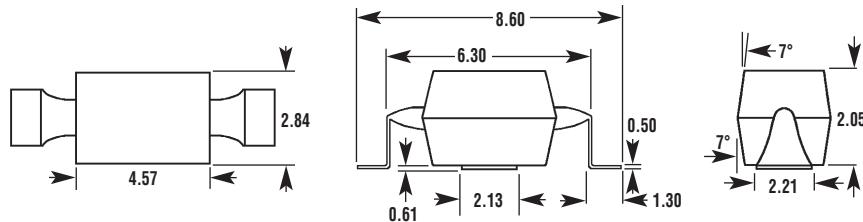


■ Outline Drawings : mm

HIGH VOLTAGE SURFACE MOUNT
DIODES - SM & SP SERIES



■ Features

- High speed switching
- High Current
- High surge resistivity for CRT discharge
- High reliability design
- High Voltage

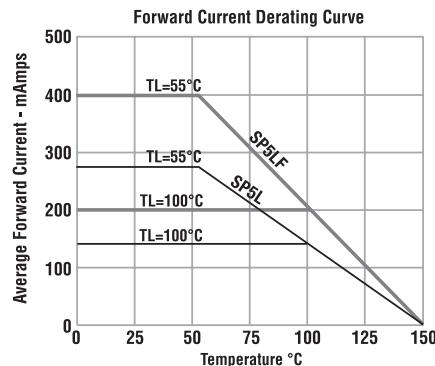
■ Applications

- X light Power supply
- Laser
- Voltage doubler circuit
- Microwave emission power

■ Maximum Ratings and Characteristics

- Absolute Maximum Ratings

■ Derating Curves



| Items | Symbols | Condition | SP5LG | Units |
|--------------------------------------|------------------|--------------------------------------|-------------|-------------------|
| Repetitive Peak Reverse Voltage | V _{RRM} | | 5.0 | kV |
| Average Output Current | I _o | T _a =25°C, Resistive Load | 270 | mA |
| Surge Current | I _{FSM} | | 10 | A _{peak} |
| Junction Temperature | T _j | | 150 | °C |
| Allowable Operation Case Temperature | T _c | | 150 | °C |
| Storage Temperature | T _{stg} | | -55 to +150 | °C |

- Electrical Characteristics (T_a=25°C Unless otherwise specified)

| Items | Symbols | Conditions | SP5LG | Units |
|-------------------------------|-----------------|--|-------|-------|
| Maximum Forward Voltage Drop | V _F | at 25°C, I _F = I _{F(AV)} | 14 | V |
| Maximum Reverse Current | I _{R1} | at 25°C, V _R = V _{RRM} | 0.1 | uA |
| | I _{R2} | at 100°C, V _R = V _{RRM} | 10 | uA |
| Maximum Reverse Recovery Time | T _{rr} | at 25°C | 75 | nS |
| Junction Capacitance | C _j | at 25°C, V _R =0V, f=1MHz | 5.0 | pF |