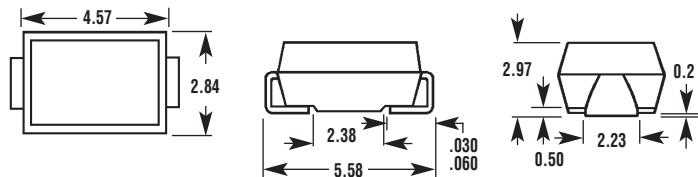


■ Outline Drawings : mm

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

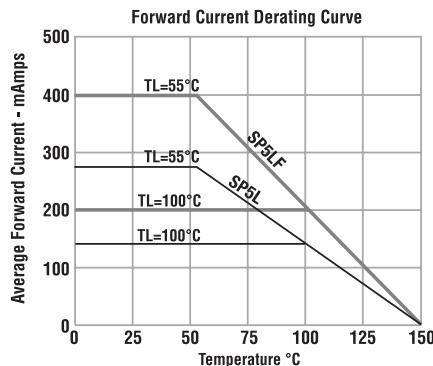
■ Applications

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

■ Maximum Ratings and Characteristics

- Absolute Maximum Ratings

■ Derating Curves



Items	Symbols	Condition	SP5L	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	SP5L	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