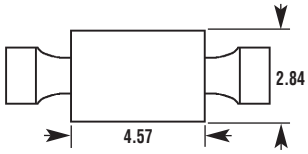
HVCA

SP5LG

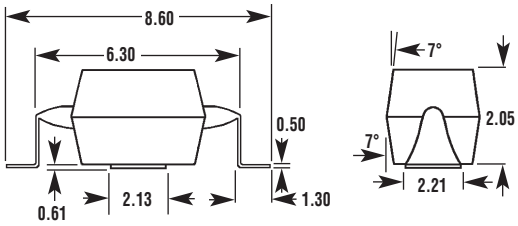
5.0kV 270mA HIGH VOLTAGE DIODES

HIGH VOLTAGE SURFACE MOUNT

DIODES – SM & SP SERIES



Outline Drawings : mm



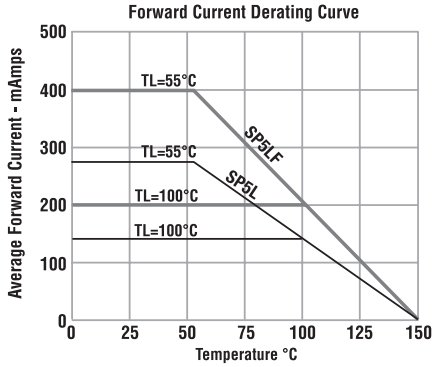
Features

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

Applications

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

Derating Curves



Maximum Ratings and Characteristics

- Absolute Maximum Ratings

Items	Symbols	Condition	SP5LG	Units
Repetitive Peak Renerse Voltage	V_{RRM}		5.0	kV
Average Output Current	I_O	Ta=25°C,Resistive Load	270	mA
Suege Current	I_{FSM}		10	A peak
Junction Temperature	Tj		150	°C
Allowable Operation Case Temperature	Tc		150	°C
Storage Temperature	T_{stg}		-55 to +150	°C

- Electrical Characteristics (Ta=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	IR1	at 25°C,V_R =V_{RRM}	0.1	uA
	IR2	at 100°C,V_R =V_{RRM}	10	uA
Maximum Reverse Recovery Time	Trr	at 25°C	75	nS
Junction Capacitance	Cj	at 25°C,V_R=0V,f=1MHz	5.0	pF

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