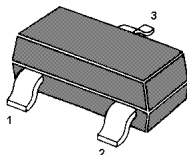
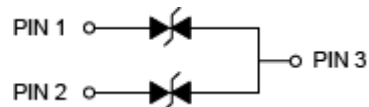


ESD protection diode

SOT-23


MARKING : C24


FEATURES

- 200W (8/20 μ s) Peak Pulse Power
High ESD Protection Level
- SOT23 Thin SMD Package
- RoHS compliant
- Matte Tin Lead finish (Pb-Free)
- Protect Two CAN Bus Lines

APPLICATIONS

- DeviceNet
- Low and High Speed CAN
- Smart Distribution Systems (SDS)
- Controlled Area Network – CAN 2.1/CAN FD

ABSOLUTE RATINGS(Ta = 25° C)

Symbol	Parameter	Value	Unit
PPK	Peak Pulse Power	200	W
IPP	Peak Pulse Current	3	A
VESD (Contact)	Contact ESD Voltage per IEC61000-4-2	23	kV
VESD (Air)	Air ESD Voltage per IEC61000-4-2	27	kV
TJ	Junction Temperature	-65 to +150	°C
TSTG	Storage Temperature	-65 to +150	°C

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				24	V
VBR	Reverse Breakdown Voltage	$I_T = 1\text{mA}$	26.4		32	V
IR	Reverse Leakage Current	VRWM = 24V		<1	50	nA
VC	Clamping Voltage	IPP = 1A (8/20 μs)			40	V
VC	Clamping Voltage	IPP = 3A (8/20 μs)			70	V
CJ	Capacitance	VR = 0V, f = 1MHz		11	17	pF

ELECTRICAL CHARACTERISTICS CURVE

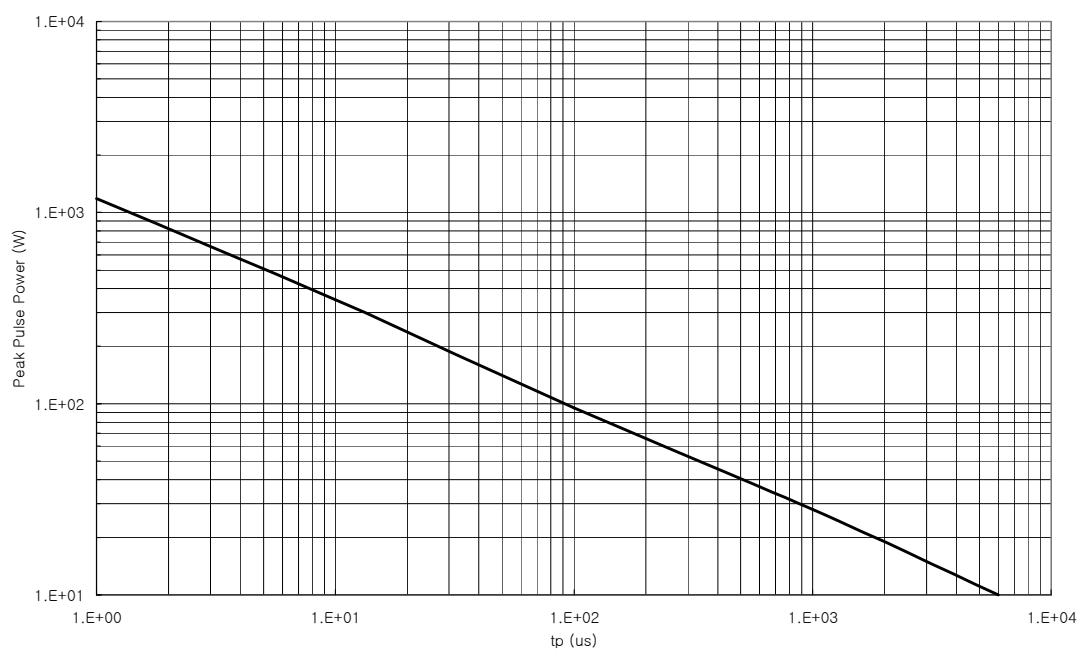


Figure 1. Peak Pulse Power Derating

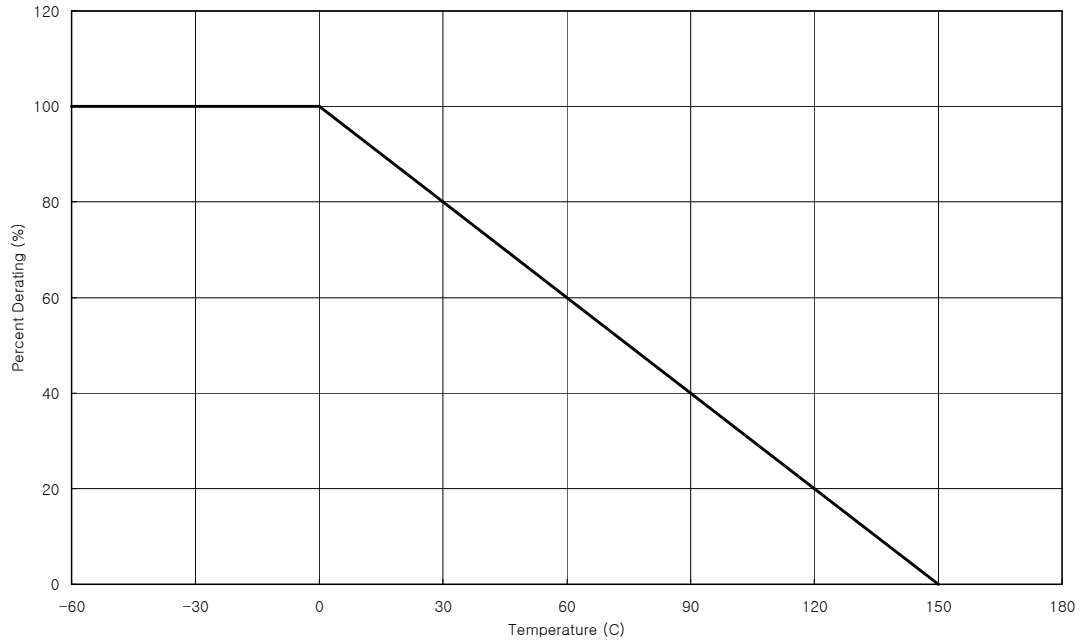


Figure 2. Peak Pulse Power Derating vs Temperature

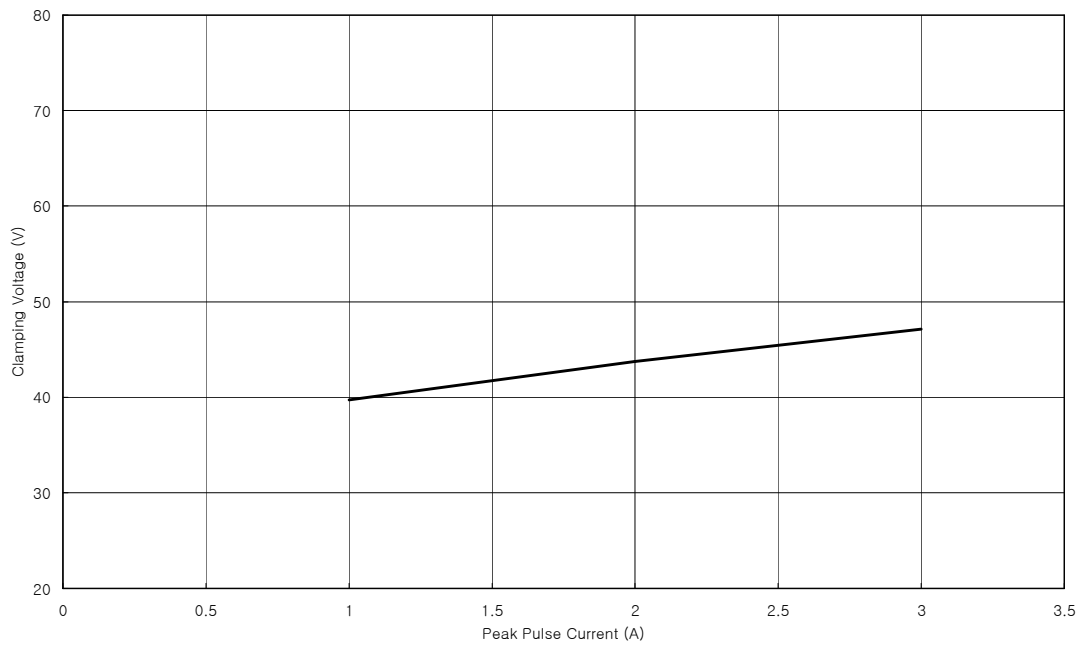


Figure 3. Peak Pulse Current vs Clamping Voltage

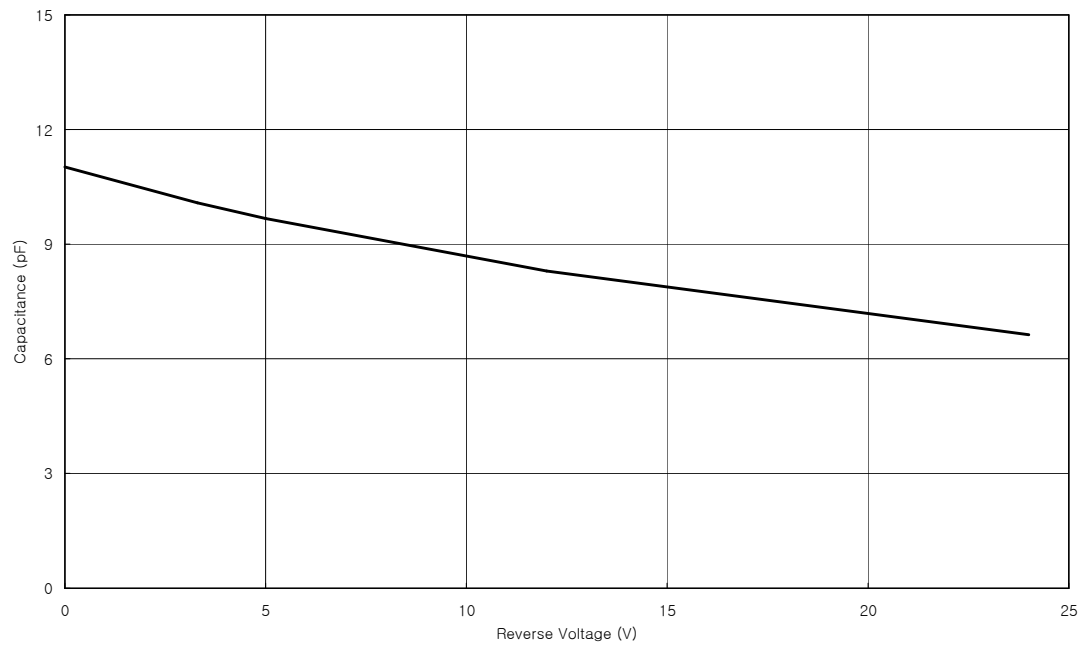
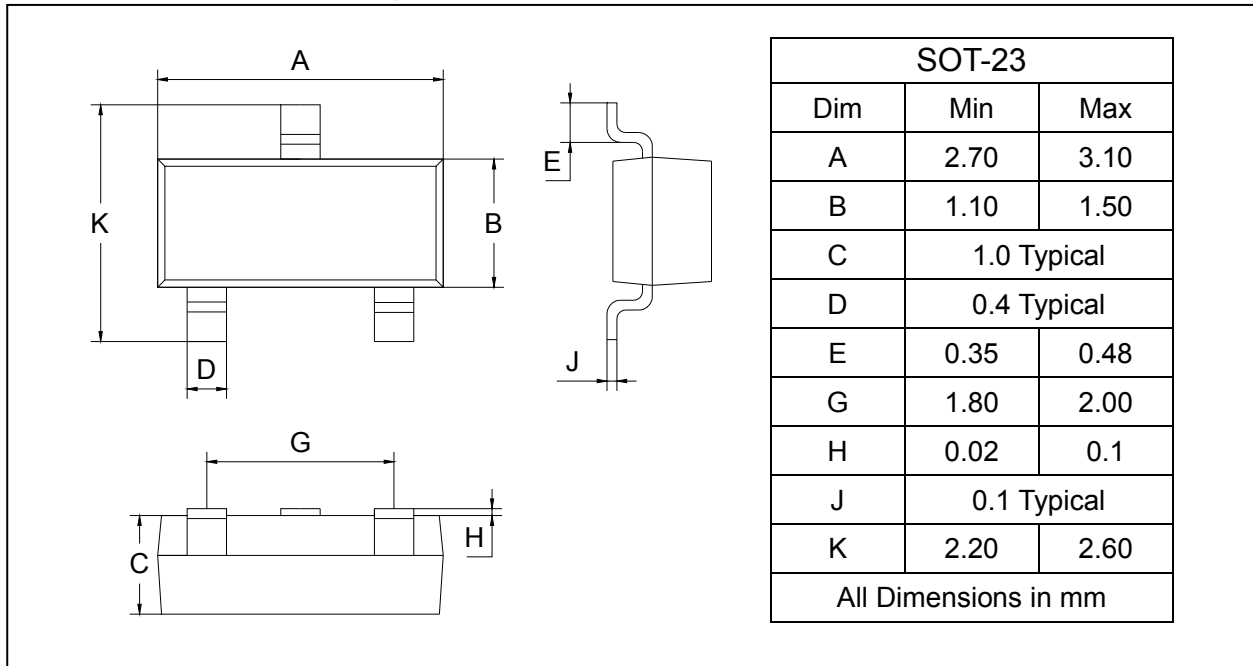


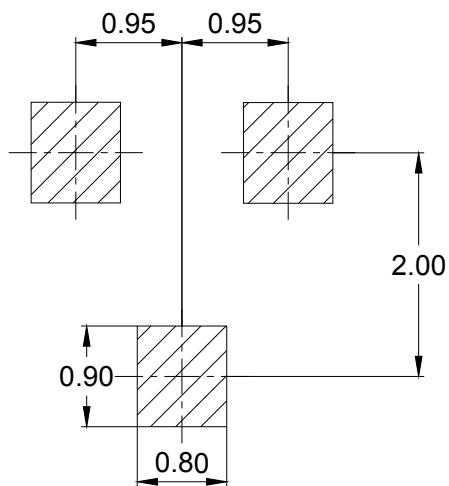
Figure 4. Reverse Voltage vs Capacitance

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



Unit : mm