

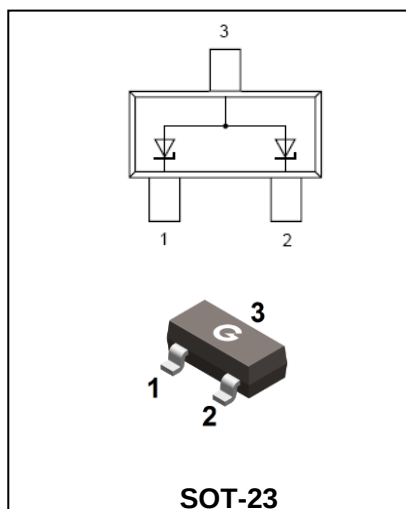
Dual TVS For ESD/Transient Protection

PJSOT03C-36C

FEATURES

- Working Peak Reverse Voltage Range - 3 to 36V
- IEC61000-4-2 Compliance 15kV Air, 8kV Contact Discharge
- Industry Standard SOT-23 Package
- RoHS compliant with Halogen-free

HF



APPLICATIONS

- Data Transmission Line Ports
- Computer Monitor Interface Port Protection
- Portable Consumer Electronics
- Instrumentation Equipment

ORDERING INFORMATION

Type No.	Marking	Package Code
PJSOT03C	J03C	SOT-23
PJSOT12C	J12C	SOT-23
PJSOT15C	J15C	SOT-23
PJSOT24C	J24C	SOT-23
PJSOT36C	J36C	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
V _{ESD}	ESD Voltage (HBM)	>25	kV
P _{PPM}	Peak Pulse Power 8/20μs Waveform	500	W
T _J	Operating Temperature Range	-55 to +150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C
T _L	Lead Soldering Temperature (max 10 secs)	260	°C

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

PJSOT03C

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Reverse stand-off voltage	V_{RWM}				3	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR}=1mA$	5		6	V
Reverse leakage current	I_{RM}	$V_{RWM}=3V$			1	μA
lamping voltage (820 μs)	V_C	$I_{PP}=1A$ $I_{PP}=30A$			7.5 15	V
Maximum Peak Pulse Current	I_{PP}	8/20 μs Waveform			30	A
Off State Capacitance (Unidirectional)	C_j	0Vdc Bias f=1MHz			700	pF
Off State Capacitance (Bi-directional)	C_j	0Vdc Bias f=1MHz between pin 1 and 2			300	pF

PJSOT12C

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Reverse stand-off voltage	V_{RWM}				12	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR}=1mA$	13.3			V
Reverse leakage current	I_{RM}	$V_{RWM}=12V$			1	μA
lamping voltage (820 μs)	V_C	$I_{PP}=1A$ $I_{PP}=24A$			18 25	V
Maximum Peak Pulse Current	I_{PP}	8/20 μs Waveform			24	A
Off State Capacitance (Unidirectional)	C_j	0Vdc Bias f=1MHz			200	pF
Off State Capacitance (Bi-directional)	C_j	0Vdc Bias f=1MHz between pin 1 and 2			100	pF

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PJSOT15C

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Reverse stand-off voltage	V_{RWM}				15	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR}=1mA$	16.7			V
Reverse leakage current	I_{RM}	$V_{RWM}=15V$			1	μA
lamping voltage (820 μs)	V_C	$I_{PP}=1A$ $I_{PP}=20A$			24 30	V
Maximum Peak Pulse Current	I_{PP}	8/20 μs Waveform			20	A
Off State Capacitance (Unidirectional)	C_j	0 Vdc Bias f = 1MHz			150	pF
Off State Capacitance (Bi-directional)	C_j	0 Vdc Bias f=1MHz between pin 1 and 2			90	pF

PJSOT24C

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Reverse stand-off voltage	V_{RWM}				24	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR}=1mA$	26.7			V
Reverse leakage current	I_{RM}	$V_{RWM}=24V$			1	μA
lamping voltage (820 μs)	V_C	$I_{PP}=1A$ $I_{PP}=14A$			32 42	V
Maximum Peak Pulse Current	I_{PP}	8/20 μs Waveform			14	A
Off State Capacitance (Unidirectional)	C_j	0 Vdc Bias f = 1MHz			150	pF
Off State Capacitance (Bi-directional)	C_j	0 Vdc Bias f=1MHz between pin 1 and 2			80	pF

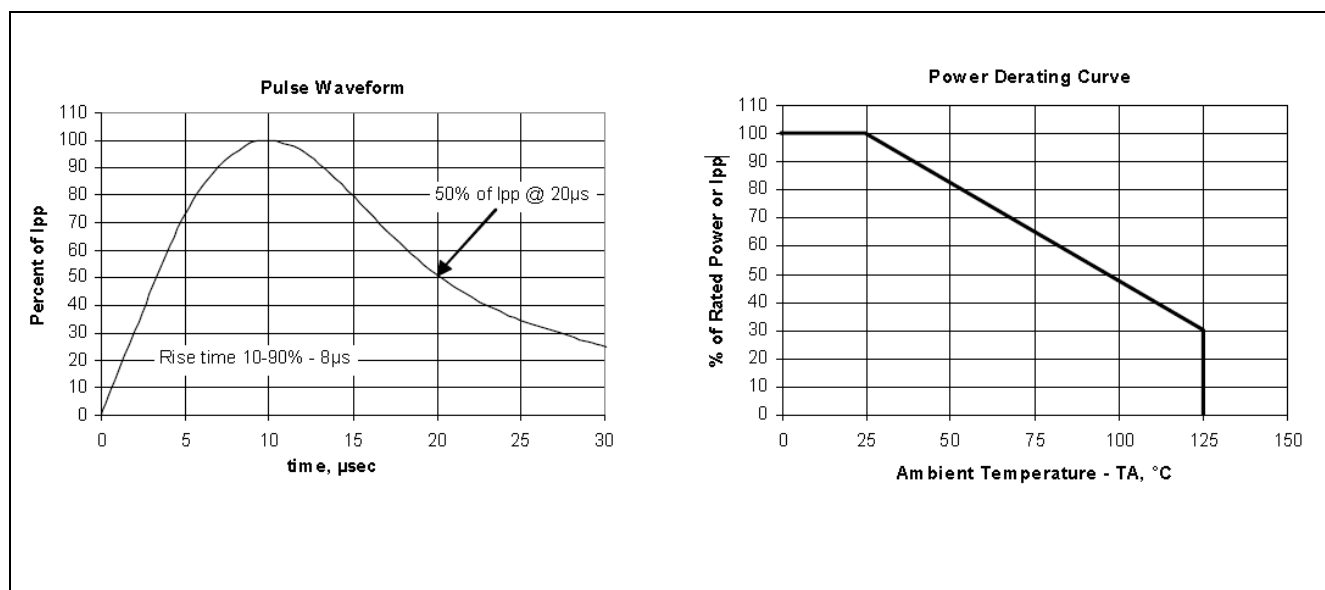
Dual TVS For ESD/Transient Protection

PJSOT03C-36C

PJSOT36C

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Reverse stand-off voltage	V_{RWM}				36	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR}=1mA$	39			V
Reverse leakage current	I_{RM}	$V_{RWM}=36V$			1	μA
lamping voltage (820 μs)	V_C	$I_{PP}=1A$ $I_{PP}=10A$			48 60	V
Maximum Peak Pulse Current	I_{PP}	8/20 μs Waveform			10	A
Off State Capacitance (Unidirectional)	C_j	0 Vdc Bias $f = 1MHz$			80	pF
Off State Capacitance (Bi-directional)	C_j	0 Vdc Bias $f=1MHz$ between pin 1 and 2			45	pF

Ratings and Characteristic Curves ($T_A=25^{\circ}C$ unless otherwise noted)



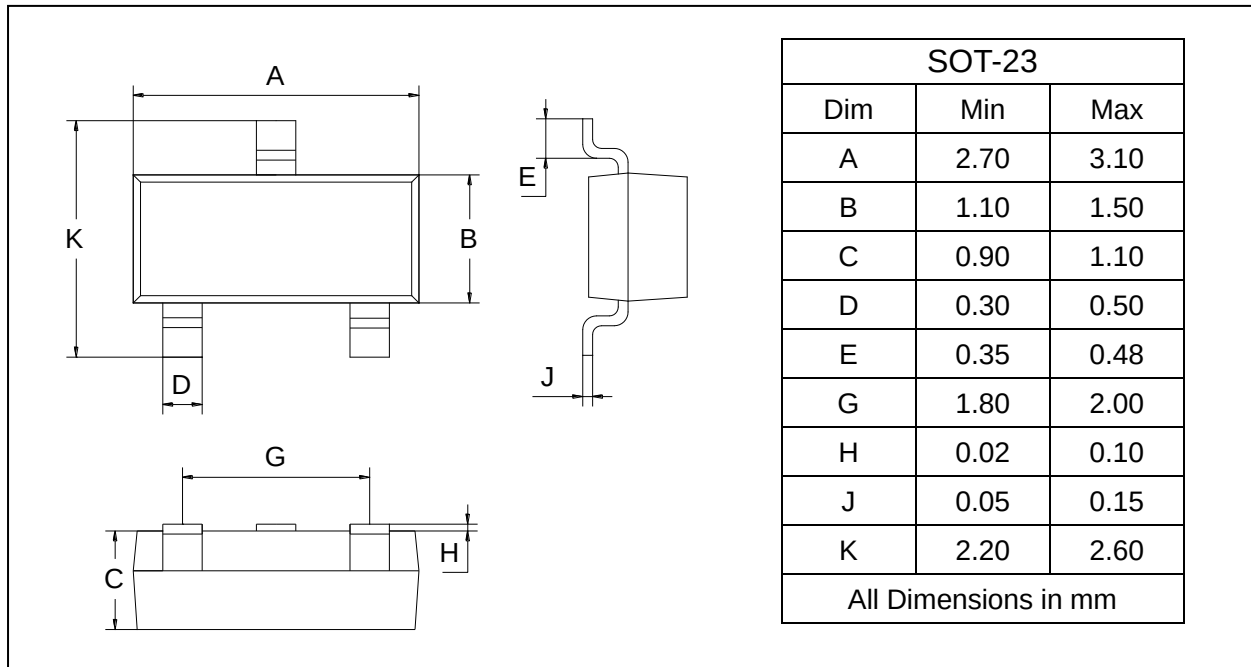
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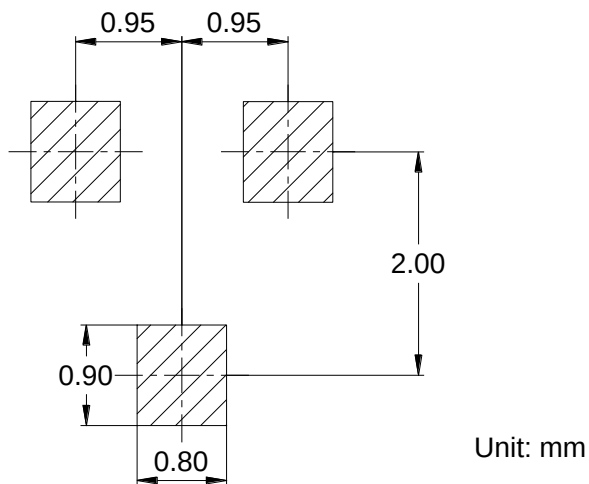
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
PJSOT03C-36C	SOT-23	3000 pcs / Tape & Reel

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PJSOT03C-36C

CHANGE RECORD

Revision	Date	Modification
Preliminary	2022-09-03	First release
1.0	2026-05-15	去掉 PJSOT05C