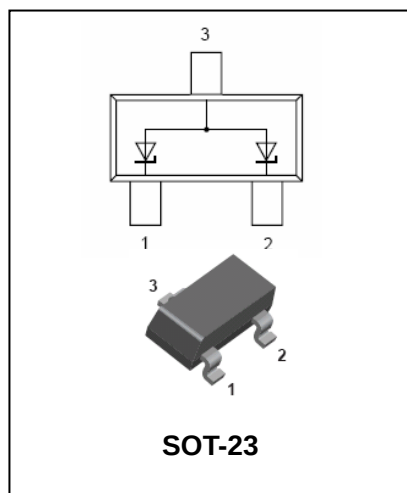


Single And Dual TVS For ESD/Transient Protection PJSOT05,05 SERIES

FEATURES

- Working Peak Reverse Voltage Range - 5 to 24V
- Maximum Leakage Current of 5 μ A
- IEC61000-4-2 Compliance 15kV Air, 8kV Contact Discharge
- Industry Standard SOT23 Package



APPLICATIONS

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

ORDERING INFORMATION

Type No.	Marking	Package Code
PJSOT05,05 SERIES		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 8/20 μ s 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



Single And Dual TVS For ESD/Transient Protection PJSOT05,05 SERIES

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

PJSOT05,PJSOT05C(Bi-directional)

Parameter	Symb ol	Test conditions	MIN	TYP	MAX	UNIT
Reverse stand-off voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR}=1mA$	6			V
Reverse leakage current	I_{RM}	$V_{RWM}=5V$			5	μA
lamping voltage (820 μs)	V_C	$I_{PP}=20A$			10	V
Maximum Peak Pulse Current	I_{PP}	8/20 μs Waveform			30	A
Off State Capacitance (Unidirectional)	C_j	0 Vdc Bias f = 1MHz			550	pF
Off State Capacitance (Bi-directional)	C_j	0 Vdc Bias f=1MHz between pin 1 and 2			220	pF

PJSOT12,PJSOT12C(Bi-directional)

Parameter	Symb ol	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}	$V_{RWM}=12V$			5	μA
lamping voltage (820 μs)	V_C	$I_{PP}=20A$			25	V
Maximum Peak Pulse Current	I_{PP}	8/20 μs Waveform			24	A
Off State Capacitance (Unidirectional)	C_j	0 Vdc Bias f = 1MHz			200	pF
Off State Capacitance (Bi-directional)	C_j	0 Vdc Bias f=1MHz between pin 1 and 2			100	pF



Single And Dual TVS For ESD/Transient Protection PJSOT05,05 SERIES

PJSOT15,PJSOT15C(Bi-directional)

Parameter	Symb ol	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}	$V_{RWM}=15V$			5	μA
lamping voltage (820 μs)	V_C	$I_{PP}=20A$			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			170	pF
Off State Capacitance (Bi-directional)	C_j	0 Vdc Bias f=1MHz between pin 1 and 2			85	pF

PJSOT24,PJSOT24C(Bi-directional)

Parameter	Symb ol	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}	$V_{RWM}=24V$			5	μA
lamping voltage (820 μs)	V_C	$I_{PP}=15A$			45	V
Maximum Peak Pulse Current	I_{PP}	8/20 μs Waveform			18	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			75	pF

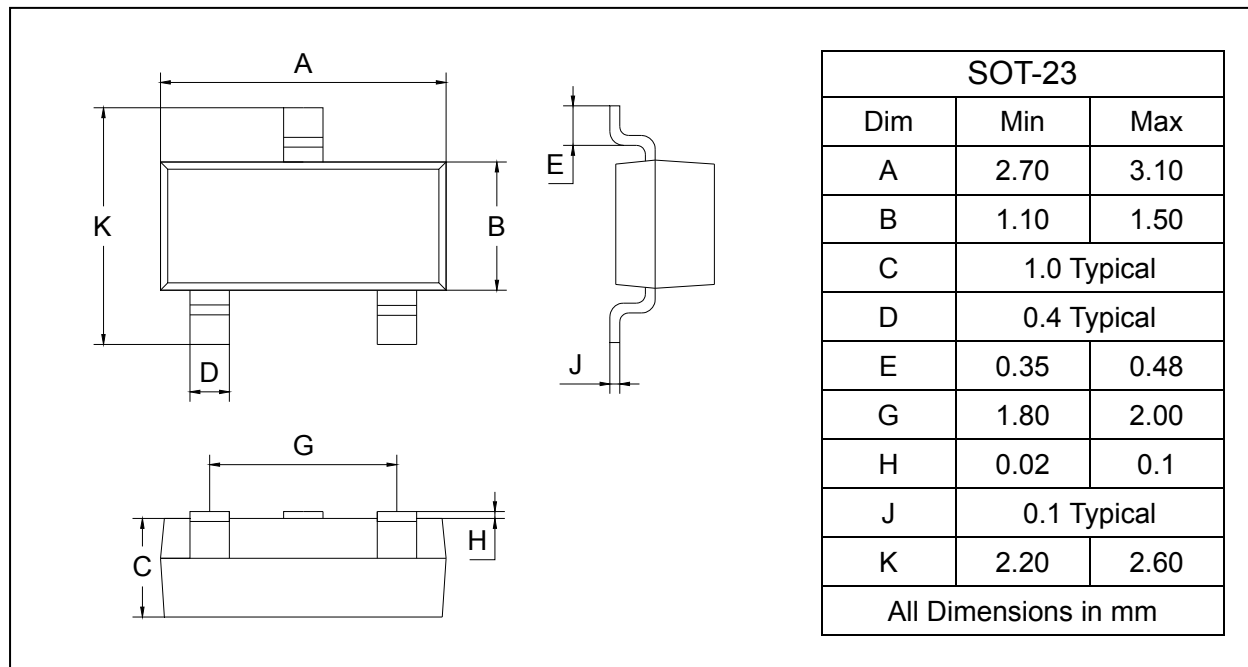


Single And Dual TVS For ESD/Transient Protection PJSOT05,05 SERIES

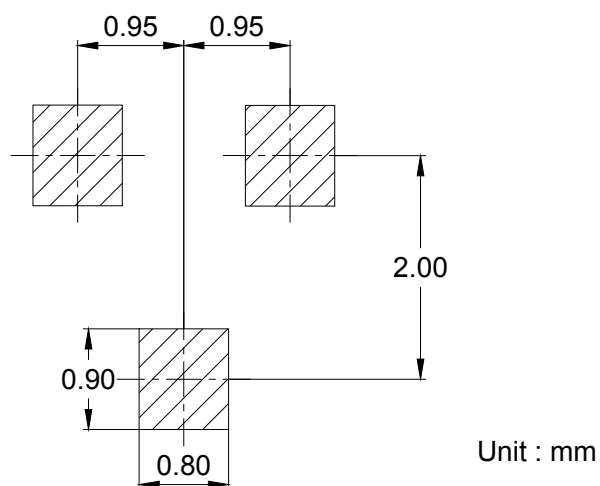
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
PESD5V2S2UT	SOT-23	3000/Tape&Reel