



PJDL C05~PJDL C24

VOLTAGE 5 to 24 Volts WATT 400 Watts

ULTRA LOW CAPACITANCE DUAL TRANSIET VOLTAGE SUPPRESSOR FOR HIGH SPEED DATA LINES

This transient overvoltage suppressor is intended to protect sensitive equipment against electrostatic discharge events as well to offer a minnum Insertion loss in data transmission lines in communications ports used in portable consumer, computing and networking applicatons. This dual transient voltage suppressor comes in a single SOT-23, offering borard space reduction, where the application requires it.

FEATURES

- Improved leakage current, maximum of 5 μ A @ 5Vdc
- Maximum capacitance @ 0 Vdc Bias of 1.2 pF between terminals 1-3 or terminals 2-3
- IEC61000-4-2 esd 15kV Air, 8kV contact compliance
- IEC61000-4-5 lightning 17 Amps peak, 8x20 usec waveform
- Pb free product are available : 99% Sn above can meet RoHS environment substance directive request

MECHANICALDATA

Case: SOT-23, plastic

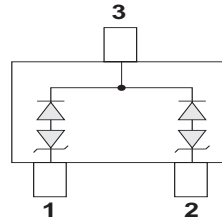
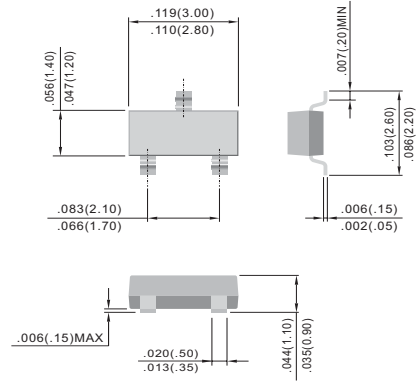
Terminals: solderable per MIL-STD-750, Method 2026

Appox. Weight : 8mg

Marking : PJDL C05 : T2S
PJDL C12 : DJ2
PJDL C15 : DJ5
PJDL C24 : DJ4

SOT-23

Unit: inch (mm)



MAXIMUM RATINGS

PJDL C05						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_L=1mA$	6			V
Reverse Leakage Current	I_R	$V_{RWM} = 5V$, $T = 25^{\circ}C$			20	μA
Clamping Voltage	V_C	$I_{PP} = 1A$ $t_p = 8/20 \mu S$			9.8	A
Clamping Voltage	V_C	$I_{PP} = 5A$ $t_p = 8/20 \mu S$			11	V
Peak Pulse Current	I_{PP}	$t_p = 8/20 \mu S$			17	A
Junction Capacitance	C_J	Pin 1 to 2 $V_R = 0V$, $f = 1MHZ$			5	pF

PJDLC05~PJDLC24

PJDLC12						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}				12	V
Reverse Breakdown Voltage	V_{BR}	$I_t=1mA$	13.3			V
Reverse Leakage Current	I_R	$V_{RWM} = 5V,$ $T = 25^{\circ}C$			1	μA
Clamping Voltage	V_C	$I_{PP} = 1A$ $t_p = 8/20 \mu S$			19	A
Clamping Voltage	V_C	$I_{PP} = 5A$ $t_p = 8/20 \mu S$			24	V
Peak Pulse Current	I_{PP}	$t_p = 8/20 \mu S$			12	A
Junction Capacitance	C_J	Pin 1 to 2 $V_R = 0V, f = 1MHZ$			5	pF

PJDLC15						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}				24	V
Reverse Breakdown Voltage	V_{BR}	$I_t=1mA$	26.7			V
Reverse Leakage Current	I_R	$V_{RWM} = 5V,$ $T = 25^{\circ}C$			1	μA
Clamping Voltage	V_C	$I_{PP} = 1A$ $t_p = 8/20 \mu S$			43	A
Clamping Voltage	V_C	$I_{PP} = 5A$ $t_p = 8/20 \mu S$			55	V
Peak Pulse Current	I_{PP}	$t_p = 8/20 \mu S$			5	A
Junction Capacitance	C_J	Pin 1 to 2 $V_R = 0V, f = 1MHZ$			5	pF

PJDLC24						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}				24	V
Reverse Breakdown Voltage	V_{BR}	$I_t=1mA$	26.7			V
Reverse Leakage Current	I_R	$V_{RWM} = 5V,$ $T = 25^{\circ}C$			1	μA
Clamping Voltage	V_C	$I_{PP} = 1A$ $t_p = 8/20 \mu S$			43	A
Clamping Voltage	V_C	$I_{PP} = 5A$ $t_p = 8/20 \mu S$			55	V
Peak Pulse Current	I_{PP}	$t_p = 8/20 \mu S$			5	A
Junction Capacitance	C_J	Pin 1 to 2 $V_R = 0V, f = 1MHZ$			5	pF

RATING AND CHARACTERISTIC CURVES

