



PEC3124C2A-AU

Electrical Characteristics

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage ^(Note 1)	V_{RWM}	-	-	-	24	V
Reverse Breakdown Voltage	V_{BR}	$I_R=5mA$	25.4	-	30.3	V
Reverse Leakage Current	I_R	$V_R=24V$	-	-	50	nA
Clamping Voltage	V_{CL}	$I_{PP}=1A, t_P=8/20\mu s$	-	-	40	V
		$I_{PP}=3A, t_P=8/20\mu s$	-	-	60	V
Clamping Voltage TLP ^(Note 2)	V_{CL}	$I_{PP}=4A, t_P=100ns$	-	34.5	-	V
		$I_{PP}=8A, t_P=100ns$	-	38	-	V
Dynamic Resistance	R_{DYN}	$t_P=100ns$	-	0.88	-	Ω
Off State Junction Capacitance	C_J	0Vdc Bias $f=1MHz$	-	11	15	pF

Note : 1.A transient suppressor is selected according to the working peak reverse voltage(V_{RWM}), which should be equal to or greater than the DC or continuous peak operation voltage level.

2.Testing using Transmission Line Pulse (TLP) conditions: $Z_0 = 50\Omega$, $t_P = 100 ns$.



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TYPICAL CHARACTERISTIC CURVES

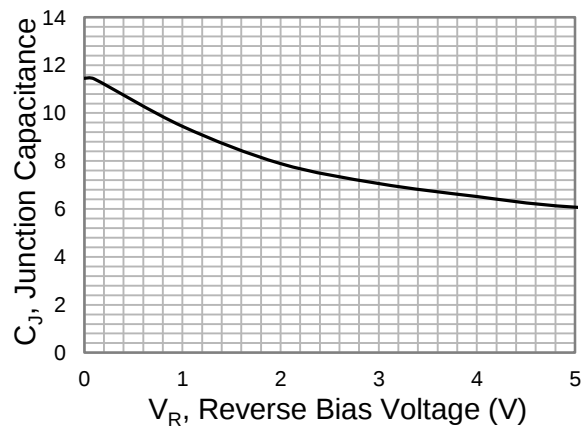


Fig.1 Typical Junction Capacitance

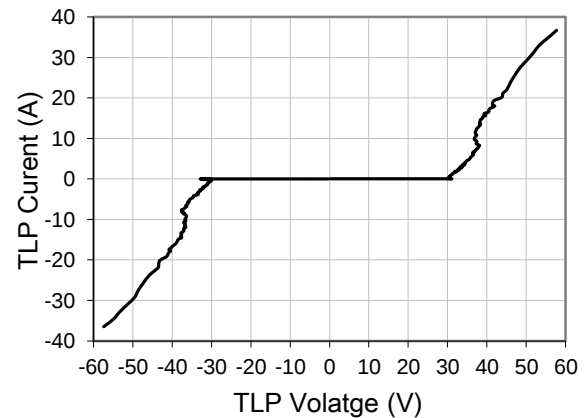


Fig.2 TLP Measurement

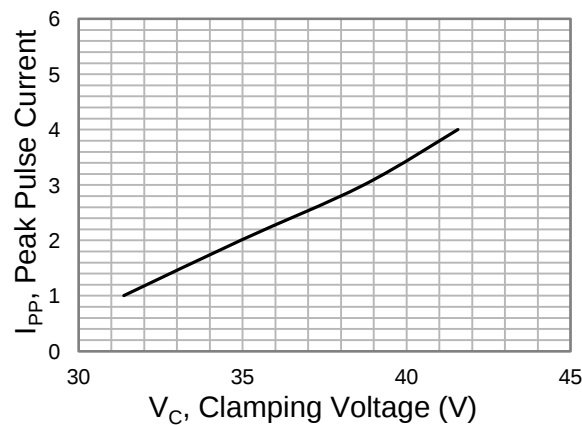


Fig.3 Typical Peak Clamping Voltage(8/20μs)

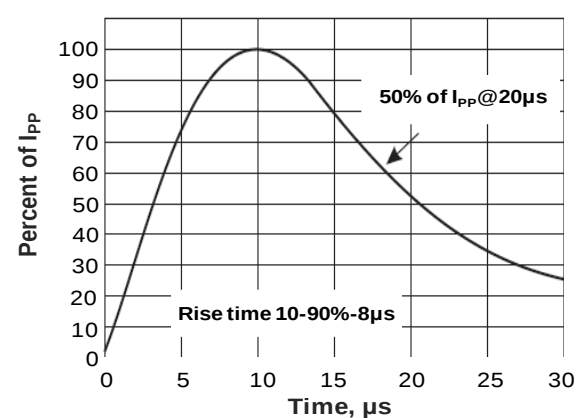


Fig.4 8/20μs Pulse Waveform

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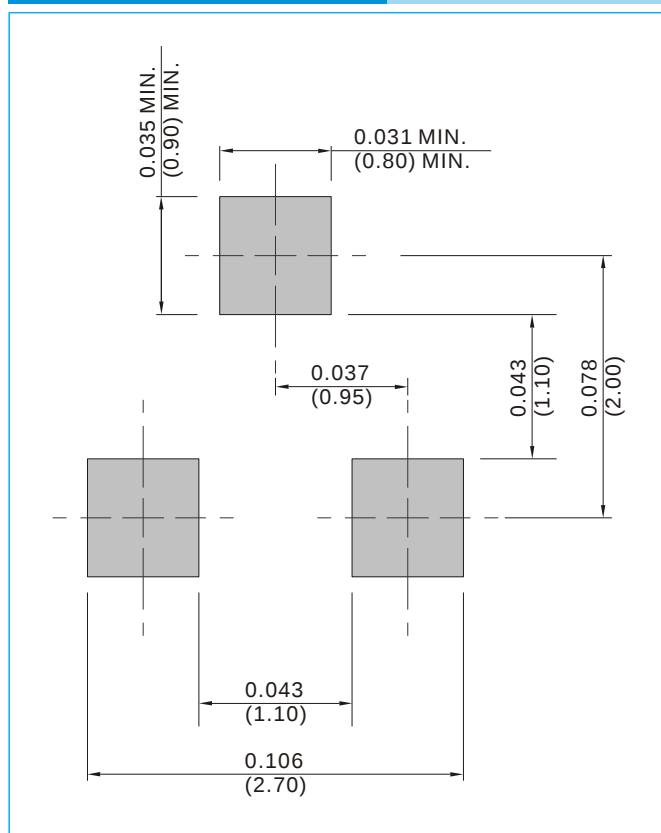
Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
PEC3124C2A-AU_R1_000A1	SOT-23	3K / 7" Reel	24A	Halogen Free
PEC3124C2A-AU_R2_000A1	SOT-23	12K / 13" Reel	24A	Halogen Free

MOUNTING PAD LAYOUT

SOT-23

Unit : inch(mm)





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