

Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
ESD IEC61000-4-2(Air)	\/	±30	kV
ESD IEC61000-4-2(Contact)	Vesd	±30	
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



PEC33712C2A-AU

Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Reverse Stand-Off Voltage	V _{RWM} ⁽¹⁾	Pin1 to Pin3 or Pin2 to					
		Pin3	-	-	12	V	
		Pin3 to Pin1 or Pin3 to	-	-	7		
		Pin2					
Reverse Breakdown Voltage	V _{BR}	Pin1 to Pin3 or Pin2 to	13.3	-	-	v	
		Pin3, I _R = 1 mA					
		Pin3 to Pin1 or Pin3 to	7.5	-	-		
		Pin2, I _R = 1 mA					
Reverse Leakage Current	IR	Pin1 to Pin3 or Pin2 to		-	1	uA	
		Pin3, V _R = 12 V	-				
		Pin3 to Pin1 or Pin3 to	-	-	1		
		Pin2, $V_R = 7 V$					
Clamping Voltage	Vcl	Pin1 to Pin3 or Pin2 to				V	
		$Pin3,I_{PP} = 1 A,$	-	-	19		
		t _P = 8/20 us					
		Pin1 to Pin3 or Pin2 to	-	-	25		
		Pin3,IPP = 5 A,					
		t _P = 8/20 us					
		Pin3 to Pin1 or Pin3 to		-	12		
		Pin2,I _{PP} = 1 A,					
		t _P = 8/20 us					
		Pin3 to Pin1 or Pin3 to					
		$Pin2,I_{PP} = 8 A,$	-	-	15		
		t _P = 8/20 us					
Off State Junction Capacitance	CJ	0Vdc Bias f = 1 MHz	-	29	35	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.

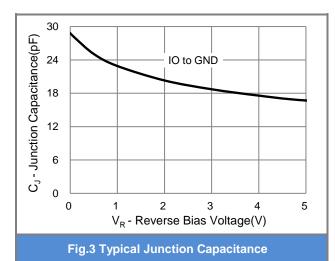


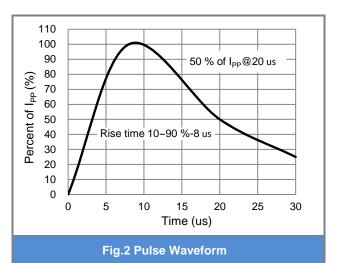
Preliminary

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30 $t_{\rm P} = 8/20 \text{ us}$ V_c - Clamping Voltage(V) 25 Pin1 to Pin3 or Pin2 to Pin3 20 Pin3 to Pin1 or Pin3 to Pin2 15 10 5 0 1 3 5 7 9 I_{PP} - Peak Current(A) Fig.1 Typical Peak Clamping Voltage

TYPICAL CHARACTERISTIC CURVES





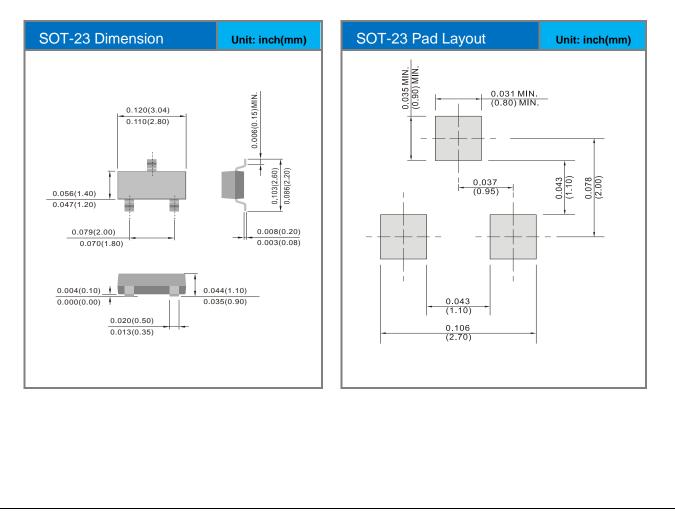


PEC33712C2A-AU

Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PEC33712C2A-AU_R1_000A1	SOT-23	3K / 7" Reel	3TA	Halogen free RoHS compliant

Packaging Information & Mounting Pad Layout





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