



#### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
ESD IEC61000-4-2(Air)	±15		kV	
ESD IEC61000-4-2(Contact)	Vesd	±8	κv	
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	Тѕтс	-55~150	°C	



#### **Electrical Characteristics** (T<sub>A</sub> = 25<sup>o</sup>C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage	V <sub>RWM</sub> <sup>(1)</sup>	-	-	-	5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>BR</sub> = 1 mA	5.5	-	10	V
Reverse Leakage Current	I <sub>R</sub>	$V_R = 5 V$	-	-	100	nA
Clamping Voltage	VcL	I <sub>PP</sub> = 1 A, t <sub>P</sub> = 8/20 us	-	-	12	V
		I <sub>PP</sub> = 2 A, t <sub>P</sub> = 8/20 us	-	-	15	
Clamping Voltage TLP	V <sub>CL</sub> <sup>(2)</sup>	I <sub>PP</sub> = 8 A, t <sub>P</sub> = 100 ns	-	12.1	-	
		I <sub>PP</sub> = 16 A, t <sub>P</sub> = 100 ns	-	13.7	-	V
Dynamic Resistance	R <sub>DYN</sub>	t <sub>P</sub> = 100 ns	-	0.2	-	Ω
Off State Junction Capacitance	CJ	0Vdc Bias f = 1 MHz	-	-	3.5	pF

NOTES :

- 1. A transient suppressor is selected according to the working peak reverse voltage(V<sub>RWM</sub>), which should be equal to or greater than the DC or continuous peak operation voltage level.
- 2. Testing using Transmission Line Pulse (TLP) conditions: Z0 = 50  $\Omega$ , t<sub>P</sub> = 100 ns.

SEMI CONDUCTOR

PAN

# PEC2305C4E5





#### Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
PEC2305C4E5_R1_00001	SOT-553	4K / 7" Reel	SA	Halogen free RoHS compliant

#### Packaging Information & Mounting Pad Layout







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