

Transient Voltage Suppressor Diode

PS60CAU10

4-line, Surge & Protection

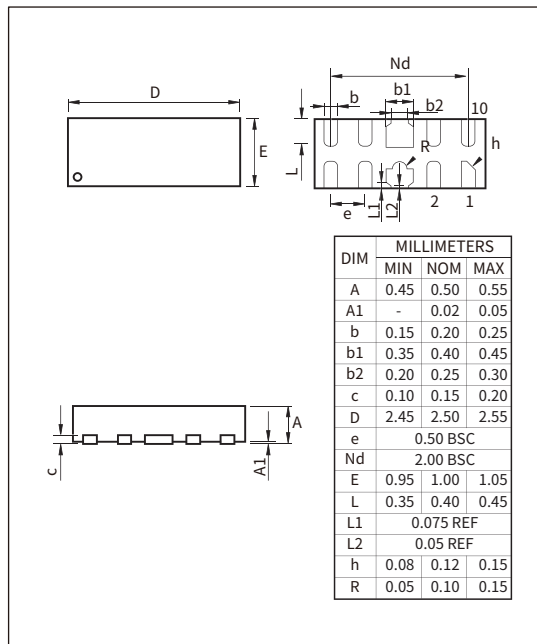
FEATURES

- High ESD Withstand Voltage
 - IEC 61000-4-2(ESD) $\pm 30\text{kV}$ (contact/Air)
- Protects up to four Vbus Lines
- Flow-Through Package
- Minimum Breakdown Voltage: 65V
- Low reverse current: $<10\text{nA}$ typical ($V_R=60\text{V}$)
- Solid-state silicon avalanche technology
- Qualified to AEC-Q101

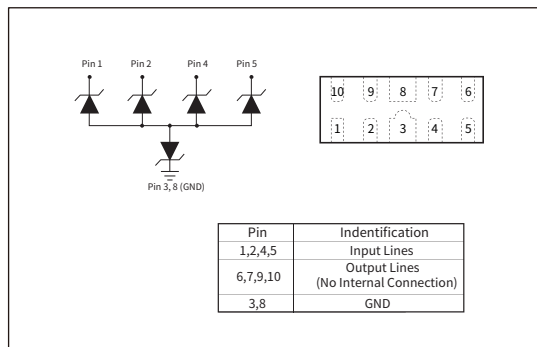
APPLICATION

- Chip-on-Glass(COG) Panels
- Vbus Protection
- OLED Panels
- Set Top Box
- Industrial Equipment

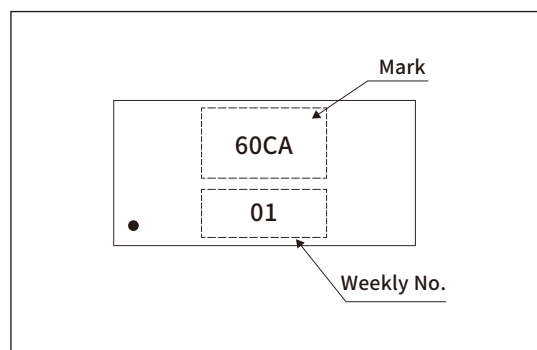
PACKAGE DIMENSION(ULP-10)



PIN CONFIGURATION



MARKING CODE



PRODUCT DATASHEET

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MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power with a tp=8/20us	P _{PK}	240	W
Peak Pulse Current with a tp=8/20us	I _{PP}	2	A
Junction Temperature	T _J	-55~150	°C
Storage Temperature	T _{STG}	-55~150	°C
IEC 61000-4-2 Contact/Air (ESD)	V _{ESD}	±30	kV

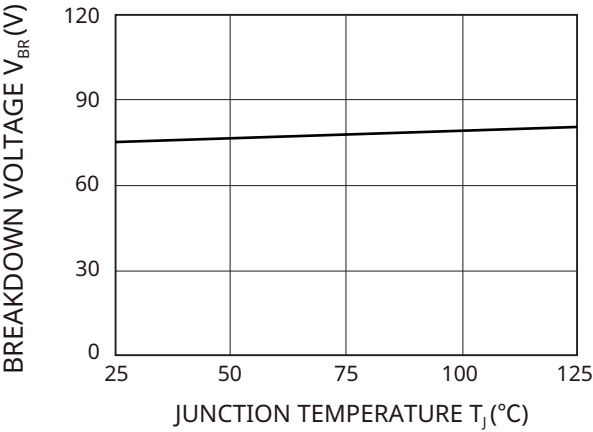
ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	Pins 1,2,4,5 to Pins 3&8	-	-	60	V
Breakdown Voltage	V _{BR}	I _{BR} =1mA, Pins 1,2,4,5 to Pins 3&8	65	75	85	V
Reverse Leakage Current	I _R	V _{RWM} =60V, Pins 1,2,4,5 to Pins 3&8	-	<10	100	nA
Clamping Voltage	V _{C1}	I _{PP} =2A, tp=8/20μs Pins 1,2,4,5 to Pins 3&8	-	88	120	V
	V _{C2}	I _{TLP} =4A, tp=100ns Pins 1,2,4,5 to Pins 3&8	-	83	-	V
Junction Capacitance	C _J	V _R =0V, f=1MHz Pins 1,2,4,5 to Pins 3&8	-	8.5	10.5	pF

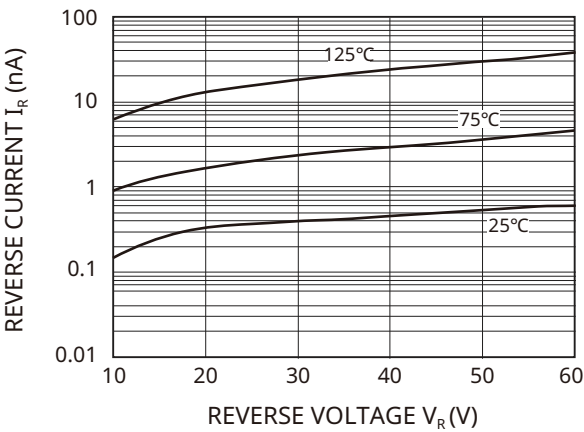
PRODUCT DATASHEET

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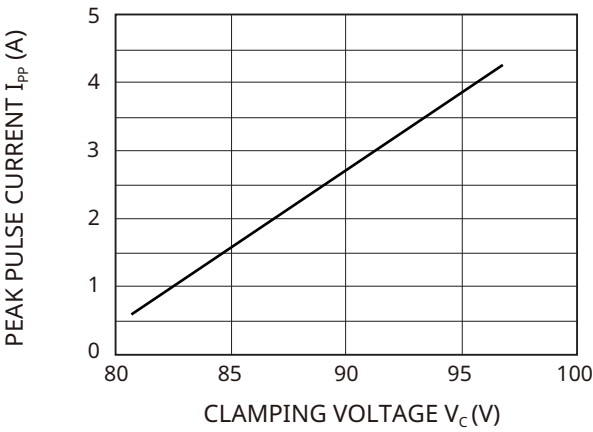
BREAKDOWN VOLTAGE
VS. JUNCTION TEMPERATURE



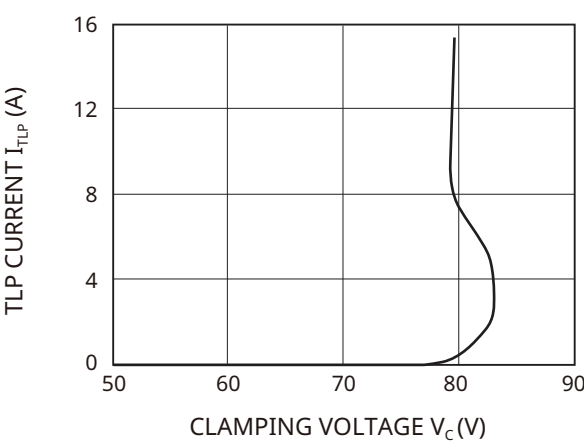
REVERSE CURENT
VS. REVERSE VOLTAGE



PEAK PULSE CURRENT
vs CLAMPING VOLTAGE



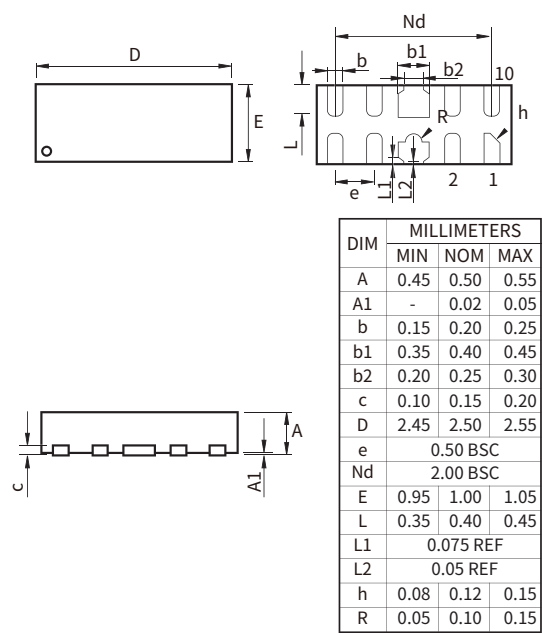
TLP I-V CURVE



PRODUCT DATASHEET

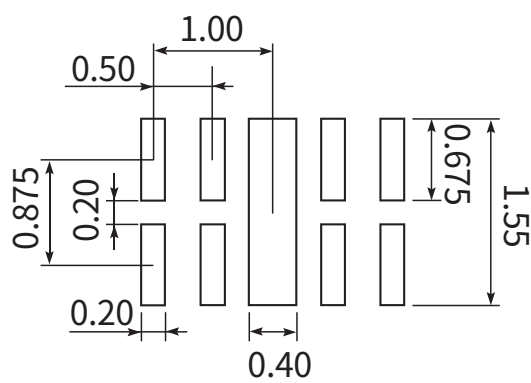
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PACKAGE INFORMATION(ULP-10)



RECOMMENDED PAD DIMENSION

Unit:mm



PRODUCT DATASHEET

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ORDERING INFORMATION

Part Number	Status	Compliance			Packing Type	Packing Qty
		AEC-Q	Pb-Free	Halogen Free		
PS60CAU10-RTK/HM	Active	-	Y	Y	Reel	3,000pcs
PS60CAU10-RTK/HUM	Active	Y	Y	Y	Reel	3,000pcs

PRECAUTION ON USING KEC PRODUCTS

1. The products described in this data are intended to be used in general-purpose electronic equipment.
(Office equipment, telecommunication equipment, measuring equipment, home appliances)
2. When you intend to use these products with equipment or device which require an extremely high of reliability and special applications (such as automobile, air travel aerospace, transportation equipment, life support, system and safety devices) in which special quality and reliability and the failure or malfunction of products may directly jeopardize or harm the human body or damage to property and any application other than the standard application intended, please be sure to consult with our sales representative in advance.
3. On designing your application, please use product within the ranges guaranteed by KEC for maximum rating, operating supply voltage range, heat radiation characteristics and other characteristics. User shall be responsible for failure or damage when used beyond the guaranteed ranges.
4. The technical information described in this data is limited to showing representative characteristics and applied circuit examples of the products and it does not constitute the warranting of industrial property, the granting of relative rights, or the granting of any license.
5. What are described in the data may be changed without any prior notice to reflect new technical development. Please confirm that you have received the latest product standards or specification before final design, purchase or use.
6. Although KEC is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors. Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. KEC shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by KEC.

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