

## Features

- >Glass passiated junction
- >Surface mount SOD-BLOCK
- >Un-directional
- >Very Low Clamping Voltage
- >High Temperature soldering:260°C/10 seconds at terminals
- >Continued current transient suppressor
- >RoHScompliant
- >8KW peak pulse power capability on 10/1000us waveform

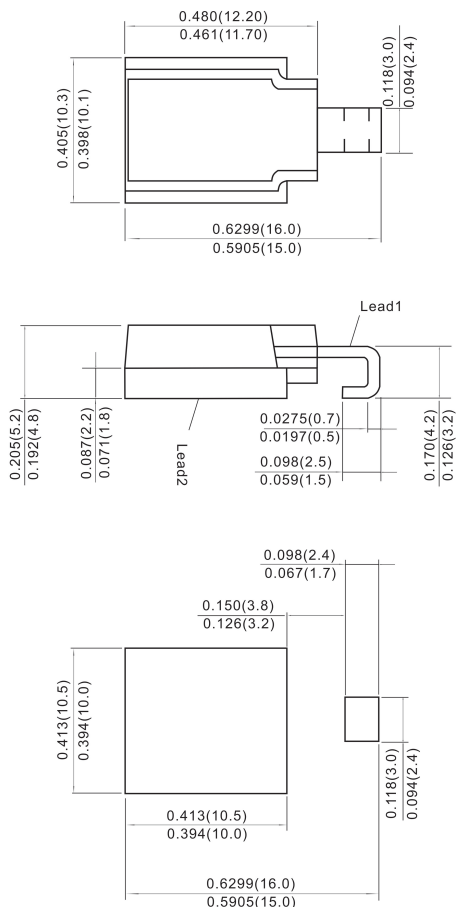


## IEC COMPATIBILITY

- >ISO 7637-2 5a 12v System ( 87V 2Ω 400ms 10c)  
24v System (150V 4Ω 350ms 10c)

## Package Dimensions

### SOD-BLOCK



## APPLICATIONS

- >Auto powers system
- >Can-bus
- >ABS powers
- >Car audio and video
- >Automotive instrument
- >Bluetooth
- >Car GPS

Electrical Characteristics

Part Numbers	Standoff Voltage(Vdc)Volts	Reverse Leakage	Breakdown Voltage(Vbr)@IT		Test Current IT	Max. Clamping Voltage Vcl@Ipp 10/1000us	
			Min.	max.		Vcl (V)	Ipp (A)
UN	Vrwm(V)	IR(uA)	Min.	max.	mA	Vcl (V)	Ipp (A)
PKD18A	18	2	20.0	22.1	5	29.2	274.0
PKD20A	20	2	22.2	24.5	5	32.4	246.9
* PKD22A	22	2	24.0	26.9	5	35.5	225.4
PKD24A	24	2	26.7	29.5	5	38.9	205.7
PKD26A	26	2	28.9	31.9	5	42.1	190.0
PKD30A	30	2	33.3	36.8	5	48.4	165.3
PKD33A	33	2	36.7	40.6	5	53.3	150.1
* PKD36A	36	2	40.0	44.2	5	58.1	137.7
PKD43A	43	2	47.8	52.8	5	69.4	115.3

\* Commonly used models

Test ISO 7637-2 pulse 5a

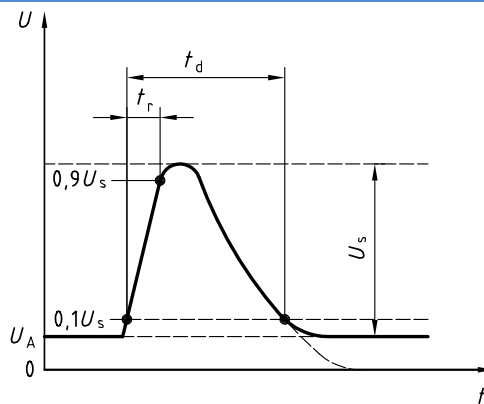


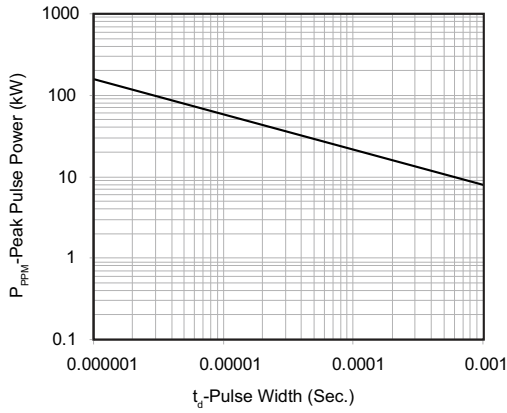
Figure 11 — Test pulse 5a

Table 9 — Parameters for test pulse 5a

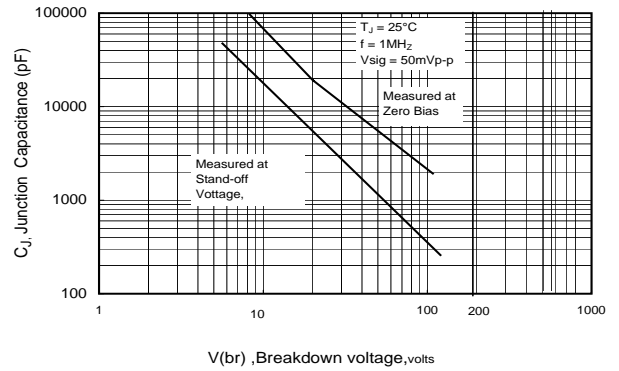
Parameter	12 V system	24 V system
Us	65 V to 87 V	123 V to 174 V
Ri	0,5 Ω to 4 Ω	1 Ω to 8 Ω
td	40 ms to 400 ms	100 ms to 350 ms
tr	$\begin{pmatrix} 10 & 0 \\ 0 & -5 \end{pmatrix}$ ms	

Soldering Parameters

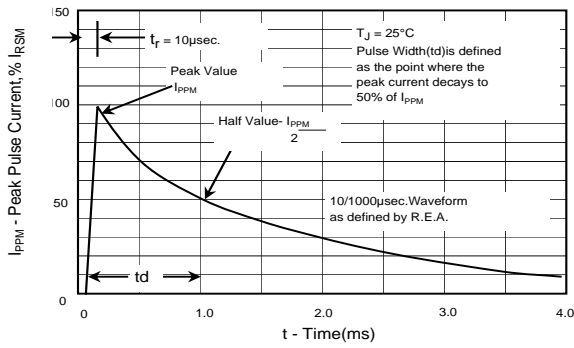
Peak Pulse Power Rating Curve



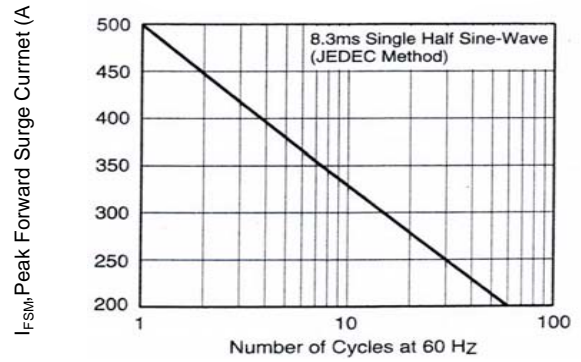
Typical Junction Capacitance



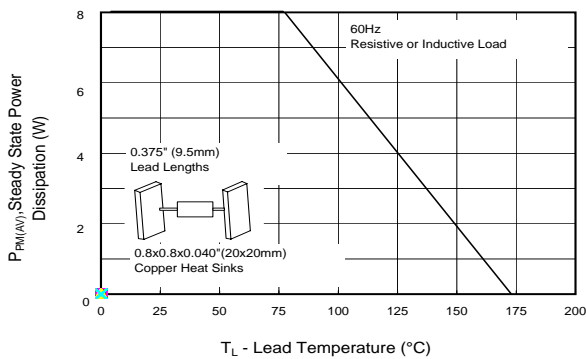
Pulse Waveform



Maximum Non-repetitive Forward Surge



Power Derating Curve



Pulse Derating Curve

