



VSP-MIKRON



# Pulse Integrated Thyristor PIT C525

Preliminary Specification, Apr. 2015

## Description

Pulse Integrated Thyristor (PIT) is especially designed for Pulsed power application and intended to replace spark gap and gas discharge devices.

## Package

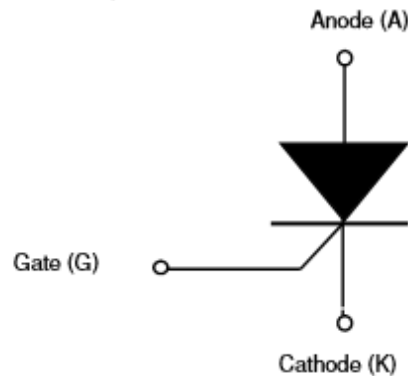
SOT-227



## Features

- 2500 Peak Off-State Voltage
- 5 kA Repetitive I<sub>pk</sub> Capability
- 15 kA/uSec Current Rise Rate
- Low On-State Voltage
- Low trigger current

## Symbol



## Main parameters of PIT

Peak Off-State Voltage	2.5 kV
Peak Reverse Voltage	-5 V
Off-State Critical Voltage Rise Rate	1 kV/uSec
Continuous Anode Current at T <sub>j</sub> = 125 °C	30 A
Repetitive Peak Anode Current (Pulse Width = 2 uSec)	5.0 kA
Nonrepetitive Peak Anode Current (Pulse Width = 2 uSec)	6 kA
Current Rise Rate	15 kA/uSec
Max. Reverse Gate-Cathode Voltage	-5 V

Shorting Gate = Cathode resistor R=10ohms should be used in any applications

## Understanding Discrete Part Numbers

Type	Package Format	Repetitive Peak Anode Current	Peak Off-State Voltage rating, Rb
<b>PIT</b>	<b>C</b>	<b>5</b>	<b>25</b>
Pulse	A — bare die	kA	Off-State Voltage = Rb * 100
Integrated	B — chip on board		25 — 2,5 kV
Thyristor	C — SOT 227 package		