

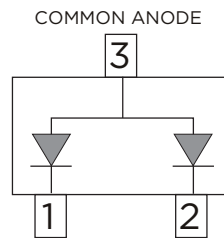
PART NUMBER	PACKAGE	VOLTAGE	POWER	CIRCUIT CONFIGURATION
JSOT05C-□VL E = 7" Embossed T&R (3,000) U = 13" Embossed T&R (12,000)	SOT-23	5-24V	250W	COMMON ANODE

### FEATURES:

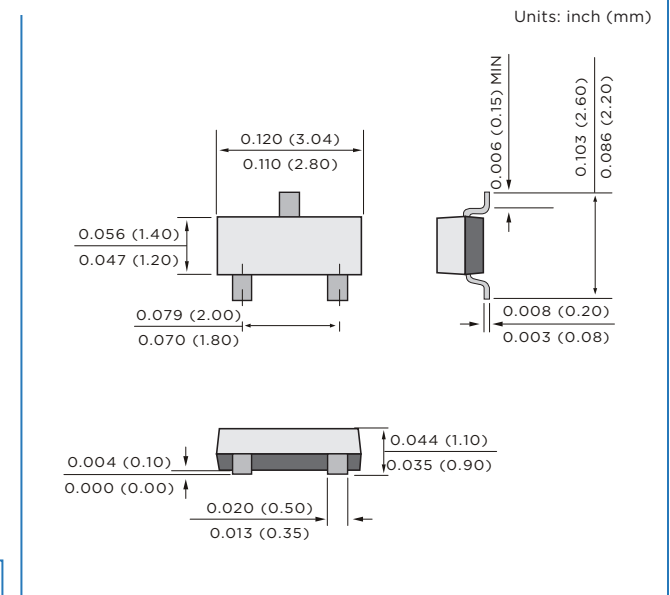
- 250 Watts Peak Pulse Power per Line (  $t_p=8/20$  ms)
- Low Clamping Voltage
- Available in Multiple Voltage Types Ranging from 5V
- IEC 61000-4-2 ±15kV Air, ±8kV Contact

### MECHANICAL DATA:

- Case: SOT-23
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 0.0003 ounces, 0.0084 grams



### SOT-23



### MAXIMUM RATINGS

Ratings @ 25°C unless otherwise specified

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ( $t_p=8/20\mu s$ ) (NOTES 1,2)	$P_{PP}$	250	W
Forward Voltage @ 100mA, 300μs - Square Wave	$V_F$	1.5	V
Peak Pulse Current on 10/1000μs waveform (NOTE 1)	$I_{PPM}$	see table	A
Operating Temperature Range	$T_J$	-50 to +150	°C
Storage Temperature Range	$T_{STG}$	-50 to +150	°C

### ENVIRONMENTAL INFORMATION

RoHS Status	10 of 10 Compliant
REACH Status	Compliant
Halogen Status	Halogen Free
Conflict Mineral Status	Conflict Mineral Free
Moisture Sensitivity Level (MSL)	1



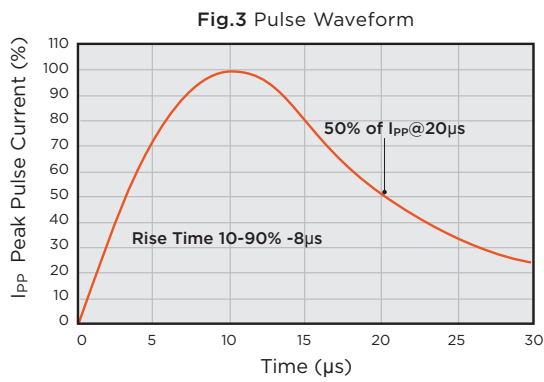
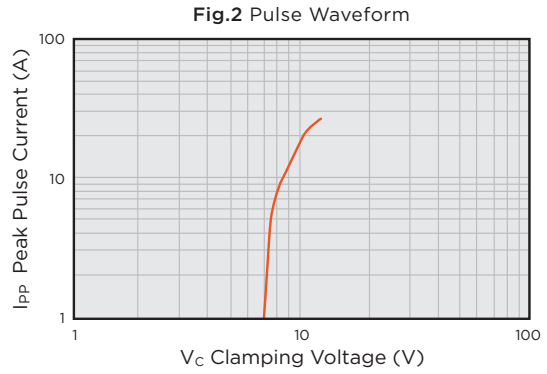
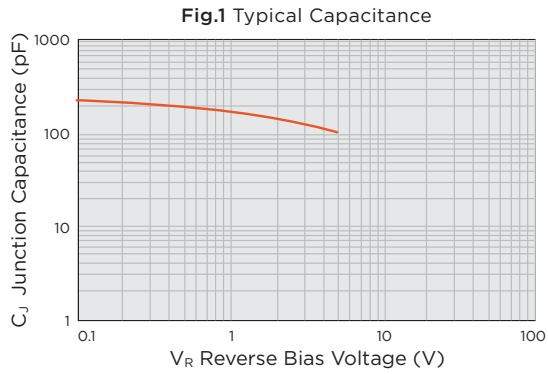
### ELECTRICAL CHARACTERISTICS

PART NUMBER	REVERSE STANDOFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAX CLAMPING VOLTAGE @ 8/20μsec	PEAK PULSE CURRENT @ 8/20μsec	MAXIMUM LEAKAGE CURRENT	OFF-STATE CAPACITANCE 1MHz ZERO DC BIAS	MARKING CODE
	$V_{RWM}$ (NOTE 3)	@ 1mA $V_{BR}$	$V_{CL}$ @ $I_{PP}$	$I_{PP}$	@ $V_{RWM}$ $I_D$	$C_D$	
	MAX. V	V	V	MAX. A	μA	MAX. pF	
JSOT05C-□VL	5	6	12.6	21	20	250	2DC

### NOTES:

1. Non-repetitive current pulse.
2. Mounted on copper pads to each terminal.
3. 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 operating voltage level.

### CHARACTERISTIC CURVES



### MOUNTING PAD LAYOUT

Units: inch (mm)

