



1.5 WATTS Surface Mount Zener Diode

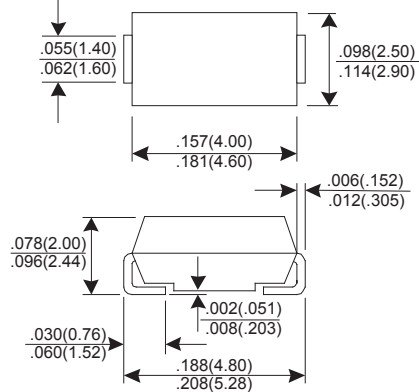
1SMA5921B~5945B

Description



SMA/DO-214AC

Mechanical Dimensions



Dimensions in inches and (millimeters)

Features

- ★ For surface mounted applications
- ★ 1.5 W power dissipation
- ★ Ideally suited for automated assembly processes

Mechanical Data

- ★ Case: Molded plastic SMA/DO-214AC
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-750 method 2026
- ★ Polarity: cathode band
- ★ Mounting position: Any
- ★ Weight: 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

| | SYMBOL | VALUE | UNIT |
|----------------------------------------------------------------------|-----------------------------------|-------------|------|
| Power Dissipation (Note 1) | P _D | 1.5 | W |
| Half sine-wave superimposed on rated load (Note 2) (JEDEC method) | I _{FSM} | 10 | A |
| Operating junction and Storage Temperature Range | T _J , T _{STG} | -55 to +150 | °C |

NOTES: □ (1) Mounted on 5.0mm² (.013mm thick) land areas.
 (2) Measurd on 8.3ms, single half-sine wave or equivalent square wave, duty cycle = 4 pulses per minute maximum. □

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FIG 3. ZENER VOLTAGE-10 TO 12 VOLTS

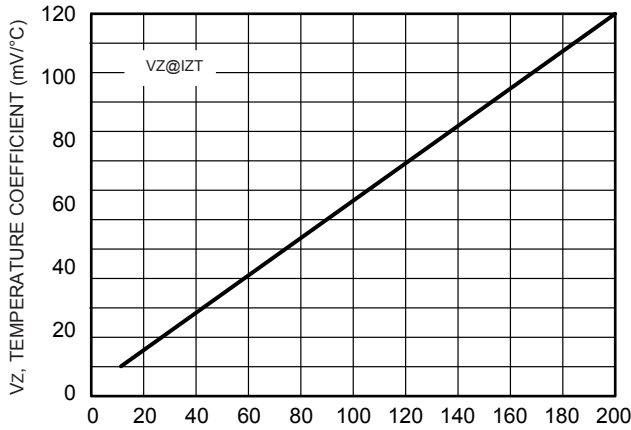


FIG 4. EFFECT OF ZENER CURRENT

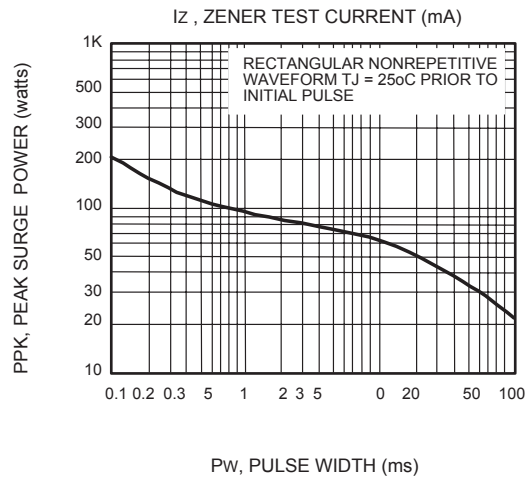
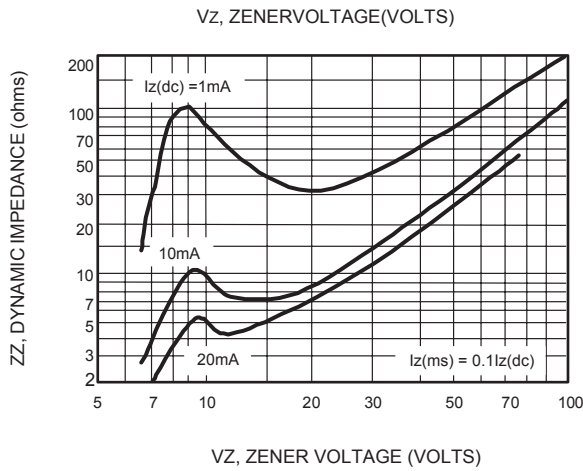
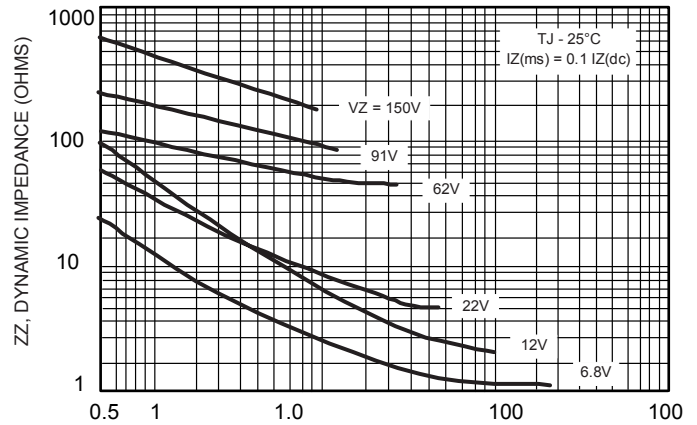


Fig 5. VZ = 6.8 THRU 10VOLTS

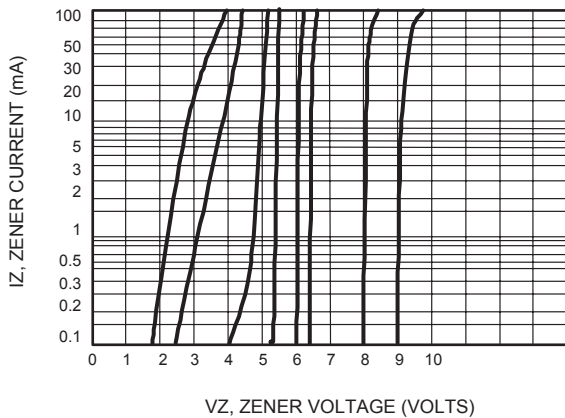


Fig 6. VZ=12 THRU 82 VOLTS

