

Voltage Range 20 to 100V
Current 1.0 Ampere

Features

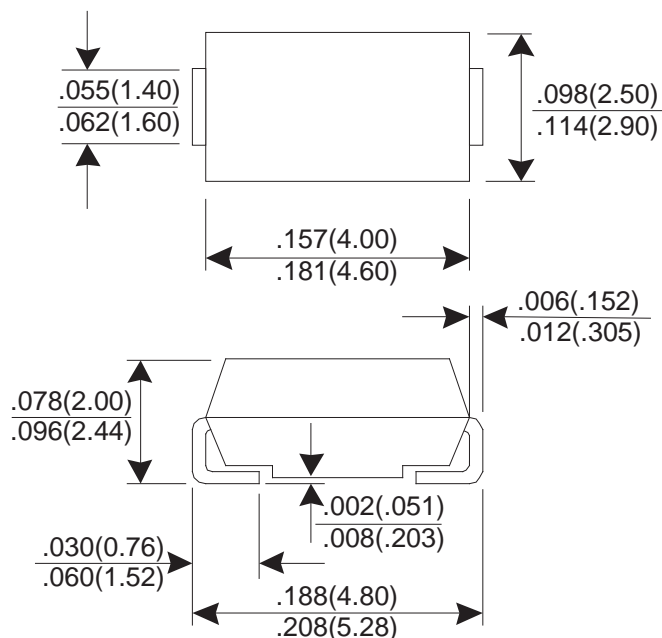
- ★ Low forward voltage drop
- ★ High current capability
- ★ High reliability
- ★ High surge current capability

Mechanical Data

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

Dimensions in inches and (millimeters)

SMA/DO-214AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

PARAMTER	SYBMOL	TSS12	TSS14	TSS16	TSS18	TSS1B	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	28	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	V
Maximum Average Forward Rectified Current T _L =100°C	I _{F(AV)}	1.0					A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30					A
Maximum Instantaneous Forward Voltage @ 1.0A	V _F	0.5		0.7		0.85	V
Maximum DC Reverse Current @T _J =25°C At Rated DC Blocking Voltage @T _J =100°C	I _R	0.5 10					mA
Typical junction Capacitance (Note 1)	C _J	120					pF
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +125 / -55 to +150					°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

RATING AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

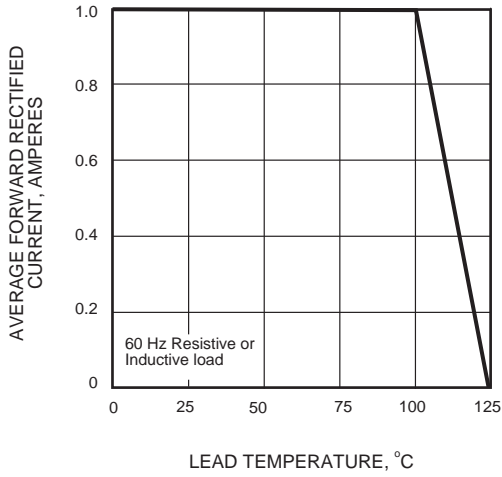


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

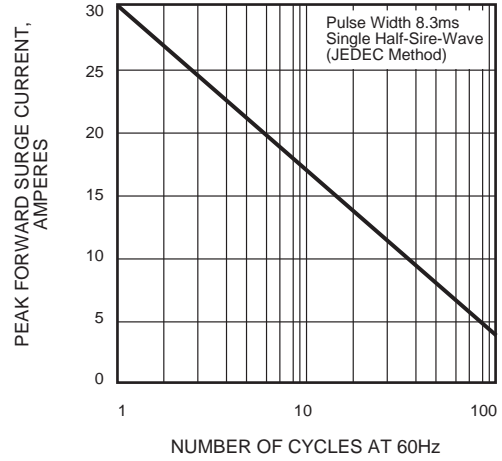


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

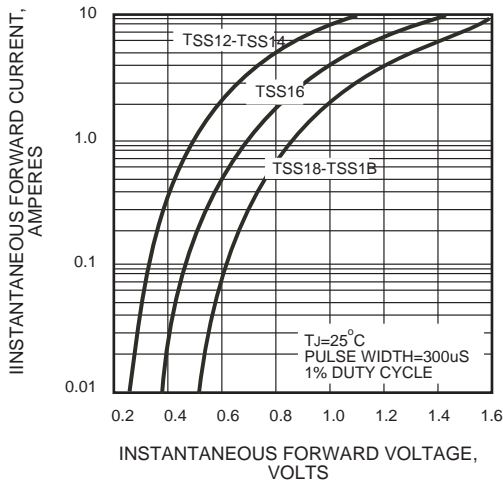


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

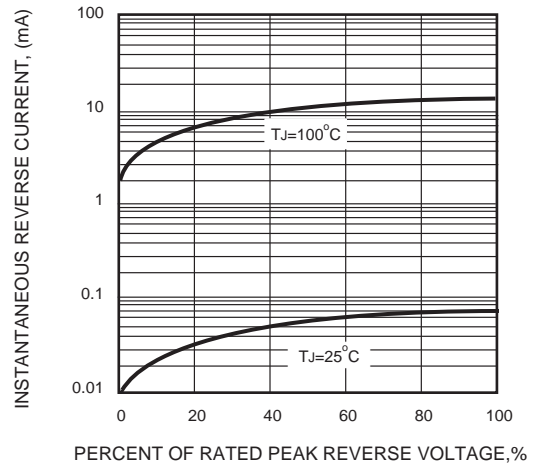


FIG.5 - TYPICAL JUNCTION CAPACITANCE

