

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Compliant to RoHS 2.0
- Suffix "-H" indicates Halogen-free part, ex. SS14A-H

Mechanical data

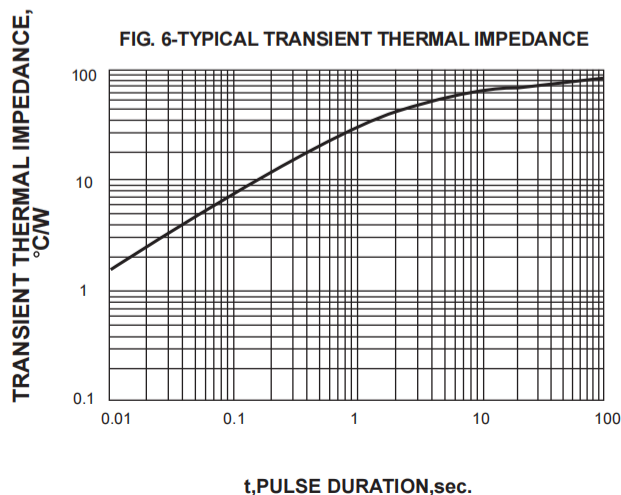
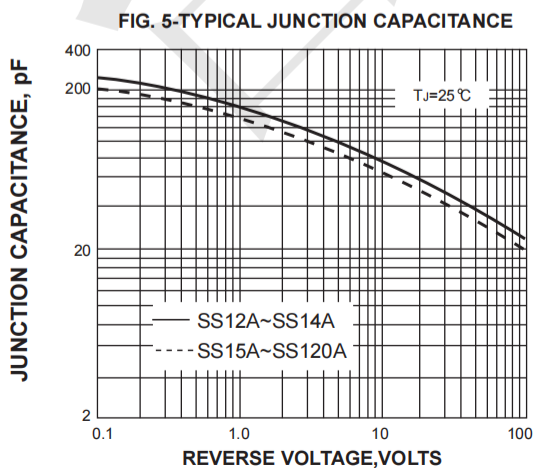
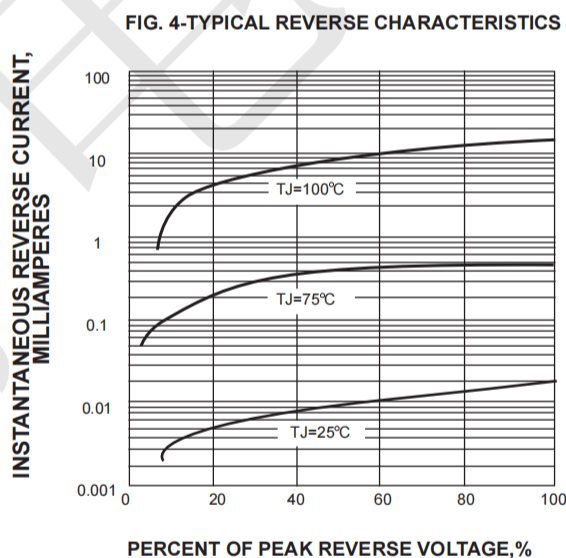
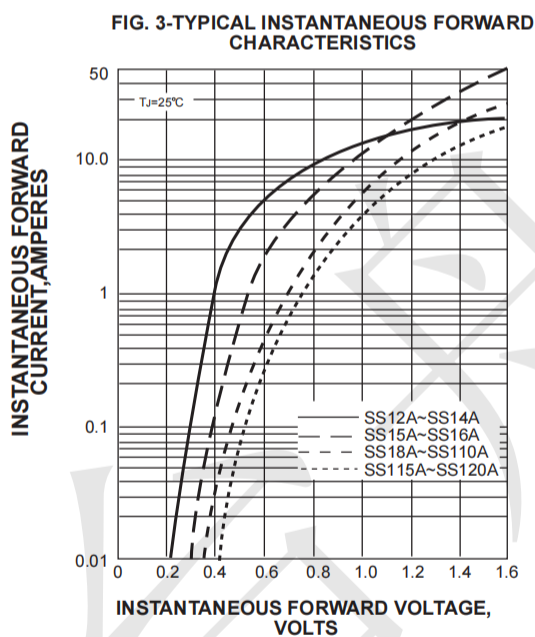
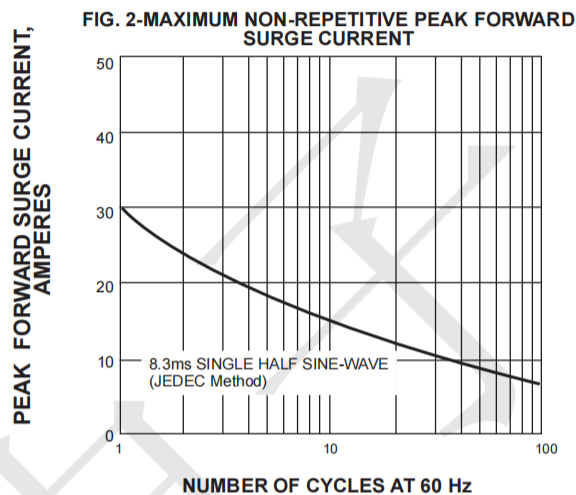
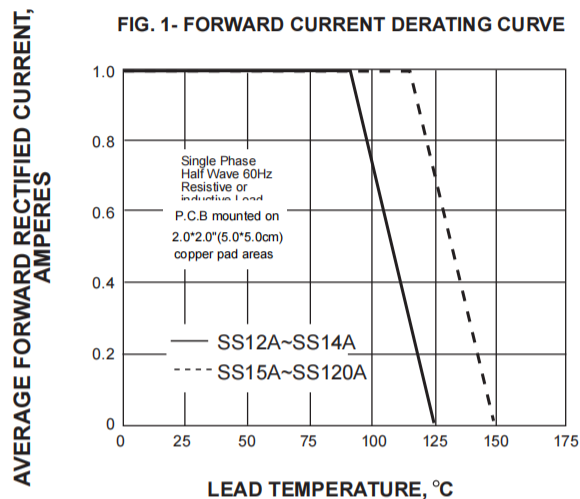
- **Case:** JEDEC DO-214AC molded plastic body
- **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any

Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOLS	SS12A	SS13A	SS14A	SS15A	SS16A	SS18A	SS110A	SS115A	SS120A	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	1.0									A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30.0									A
Maximum instantaneous forward voltage at 1.0A	V _F	0.55			0.70		0.85		0.95		V
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.5					0.1				mA
		10.0					5.0		2.0		
Typical junction capacitance (NOTE 1)	C _J	110									pF
Typical thermal resistance (NOTE 2)	R _{θJA}	90									°C/W
Operating junction temperature range	T _J	-55 to +125			-55 to +150						°C
Storage temperature range	T _{STG}	-55 to +150									°C

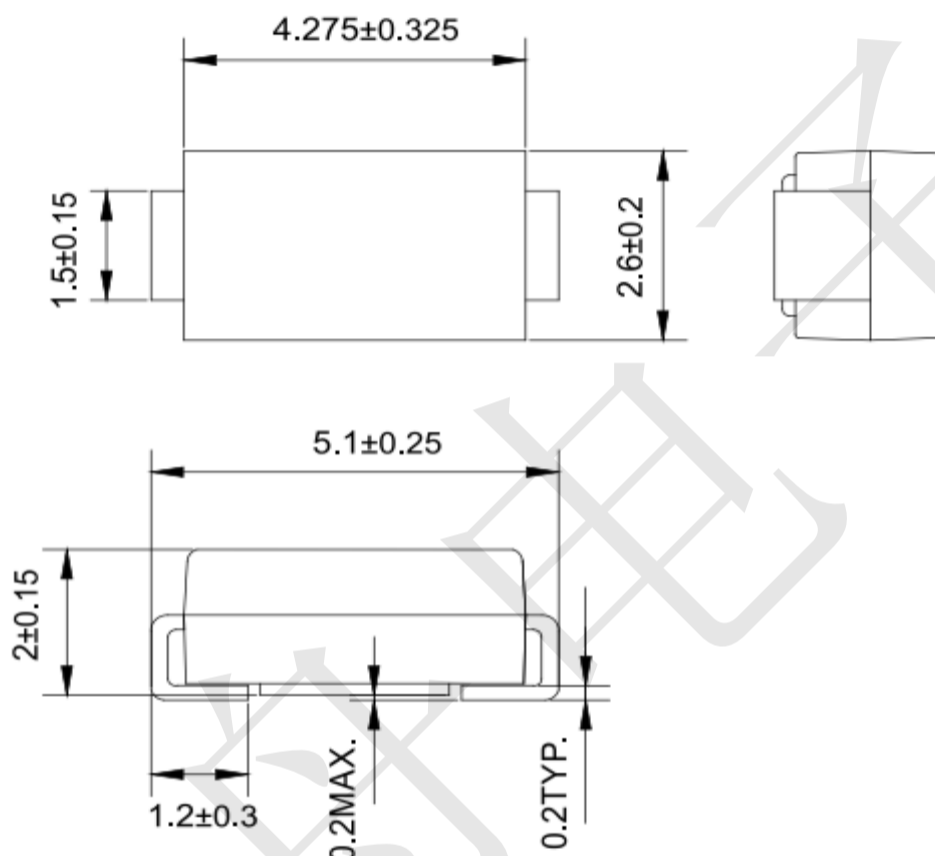
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 2.0x2.0" (5.0x5.0cm) copper pad areas

Rating and characteristic curves



Package information (Unit: mm)

SMA



Mounting Pad Layout (Unit: mm)

