SF11S ~ SF18S 1.0Amp Super Fast Rectifiers

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Super fast speed switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
 260°C/10 seconds,0.375"(9.5mm) lead length,
 5 lbs. (2.3kg) tension

Mechanical Data

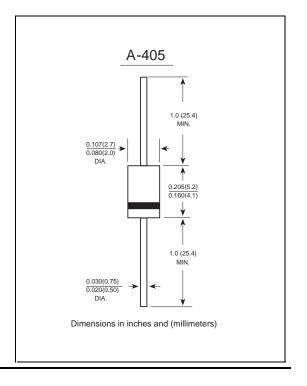
Case: JEDEC A-405 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012 ounce, 0.33 grams



Maximum Ratings And Electrical Characteristics

Ratings at $25\,^{\circ}$ C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

SYMBOLS	SF11S	SF12S	SF13S	SF14S	SF15S	SF16S	SF18S	UNITS
Vrrm	50	100	150	200	300	400	600	VOLTS
V _{RMS}	35	70	105	140	210	280	420	VOLTS
VDC	50	100	150	200	300	400	600	VOLTS
I(AV)	1.0						Amps	
IFSM	30.0						Amps	
VF	0.95		1.25		1.7	Volts		
lR	5.0 50.0						μΑ	
trr	35						ns	
Сл	15.0 10.0					pF		
RθJA	60.0						°C/W	
T _J ,T _{STG}	-65 to +150						°C	
	VRRM VRMS VDC I(AV) IFSM VF IR CJ RθJA	VRRM 50 VRMS 35 VDC 50 I(AV) IFSM VF IR trr CJ RθJA	V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I(AV) IFSM VF 0. IR t _{rr} C _J 15 RθJA	V _{RRM} 50 100 150 V _{RMS} 35 70 105 V _{DC} 50 100 150 I(AV) IFSM VF 0.95 IR trr CJ 15.0 RθJA	V _{RRM} 50 100 150 200 V _{RMS} 35 70 105 140 V _{DC} 50 100 150 200 I(AV) 1.0 VF 0.95 IR 5.0 50.0 trr 35 CJ 15.0 RθJA 60.0	V _{RRM} 50 100 150 200 300 V _{RMS} 35 70 105 140 210 V _{DC} 50 100 150 200 300 I _(AV) 1.0 I _{FSM} 30.0 V _F 0.95 1.2 I _R 5.0 50.0 50.0 t _{Tr} 35 C _J 15.0 R _{ΘJA} 60.0	V _{RRM} 50 100 150 200 300 400 V _{RMS} 35 70 105 140 210 280 V _{DC} 50 100 150 200 300 400 I(AV) 1.0 V _F 0.95 1.25 I _R 5.0 50.0 t _{rr} 35 C _J 15.0 10.0 RθJA 60.0	V _{RRM} 50 100 150 200 300 400 600 V _{RMS} 35 70 105 140 210 280 420 V _{DC} 50 100 150 200 300 400 600 I(AV) 1.0 VF 0.95 1.25 1.7 IR 5.0 50.0 trr 35 CJ 15.0 10.0 Rejja 60.0

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted