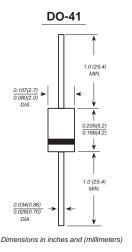


SF11 THRU SF18

SUPER FAST RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current -1.0 Ampere



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Super fast switching for high efficiency
- Low reverse leakage
- ◆ High forward surge current capability
- High temperature soldering guarantéed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-41 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°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	SF11	SF12	SF13	SF14	SF15	SF16	SF18	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	150	200	300	400	600	VOLTS
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	VOLTS
Maximum DC blocking voltage	Vpc	50	100	150	200	300	400	600	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=55℃	l(AV)	1.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lFSM	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	VF	0.95			1.25		1.7	Volts	
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lr	5.0 50.0						μΑ	
Maximum reverse recovery time (NOTE 1)	trr	35							ns
Typical junction capacitance (NOTE 2)	Cı	15.0 10.0					pF		
Typical thermal resistance (NOTE 3)	RθJA	60.0							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150							°C

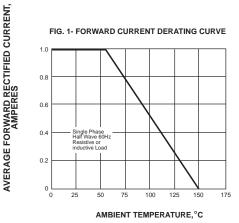
Note: 1.Reverse recovery condition I_F=0.5A,I_R=1.0A,Irr=0.25A

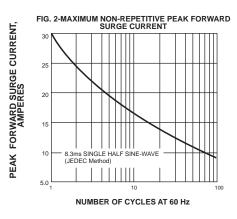
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

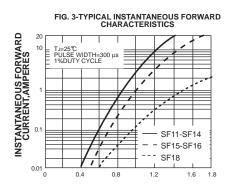
3.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

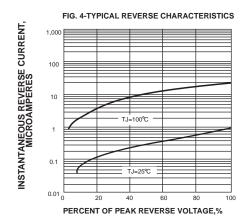


RATINGS AND CHARACTERISTIC CURVES SF11 THRU SF18

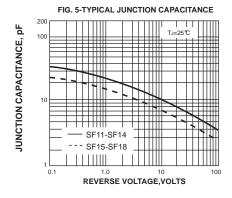


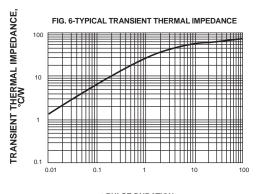












t,PULSE DURATION,sec.

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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