

### SF11 THRU SF16

#### SURFACE MOUNT GALSS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 400 Volts

Forward Current - 1.0Ampere

#### **FEATURES**

- . Low forward voltage drop
- . High current capability
- . High reliability
- . High surge current capability
- . Ultra-fast switching speed
- . Good for use in switching mode circuits



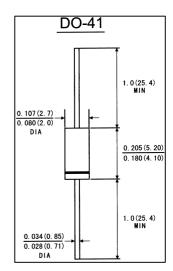
. Case: JEDEC DO-41 molded plastic body

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

. Polarity: Color band denotes cathode end

. Mounting Position: Any

. Weight: 0.012 ounce, 0.34 gram



**Dimensions in inches and (millimeters)** 

#### 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, derate current by 20%)

	Symbols	SF11	SF12	SF13	SF14	SF15	SF16	Units
Maximum Recurrent peak reverse voltage	Vrrm	50	100	150	200	300	400	Volts
Maximum RMS voltage	VRMS	35	70	105	140	210	280	Volts
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	Volts
Maximum average forward rectified current 0.375"(9.5mm)lead length at $T_A\!\!=\!\!55^{\circ}\!$	l(AV)	1.0						Amp
Peak forward surge current (8.3ms single half sing wave superimposed on rated load (JEDEC method)	lfsm	30.0						Amps
Maximum instantaneous forward voltage at 1.0 A	VF	0.95 1.25				Volts		
Maximum DC reverse $T_A=25^{\circ}C$	1.	I <sub>R</sub> 5.0						μ Α
current at rated DC Blocking Voltage T <sub>A</sub> =150°C	'R							
Typical reverse recovery time(Note 1)	Trr	35						ns
Typical junction capacitance(Note 2)	CJ	15 10				pF		
Operating and storage temperature range	ТЈ Тѕтс	-65 to +150					$^{\circ}$	

Notes: 1.Test conditions:IF=0.5A,IR=1.0A,Irr=0.25A.

2. Measured at 1MHz and applied reverse voltage of 4.0 Volts.



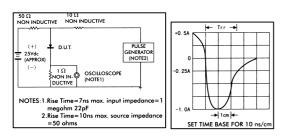


# SURFACE MOUNT GALSS PASSIVATED JUNCTION RECTIFIER Reverse Voltage - 50 to 400 Volts

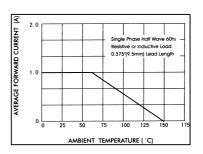
Forward Current - 1.0Ampere

### **RATINGS AND CHARACTERISTIC CURVES SF11 THRU SF16**

## FLG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



## FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE



## FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

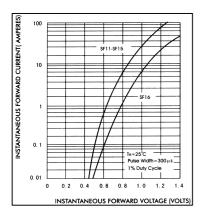
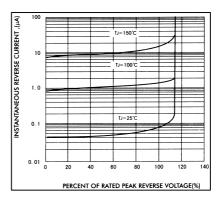
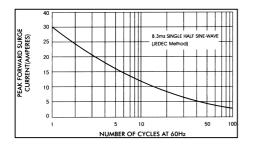


FIG.4-TYPICAL REVERSE CHARACTERISTICS



### FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



#### FIG.6-TYPICAL JUNCTION CAPACITANCE

