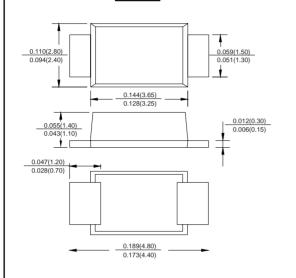


SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current -1.0 Ampere

SMAF



Dimensions in inches and (millimeters)

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications

- Fast switching for high efficiency
 Low reverse leakage
 Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
 ◆ Glass passivated chip junction

Mechanical Data

Case: SMAF molded plastic body over passivated chip Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.0014 ounce, 0.038 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%.

SYMBOLS	RS1AF	RS1BF	RS1DF	RS1GF	RS1JF	RS1KF	RS1MF	UNITS
Vrrm	50	100	200	400	600	800	1000	V
VRMS	35	70	140	280	420	560	700	V
VDC	50	100	200	400	600	800	1000	V
l(AV)	1.0							А
Ігѕм	30.0							А
VF	1.3							V
lR	5.0 50.0							μА
trr	150		250	500)	ns		
Cı	15.0						pF	
Reja	88.0						°C/W	
ТЈ,Тѕтс	-55 to +150							°C
	VRRM VRMS VDC I(AV) IFSM VF IR trr CJ RθJA	VRRM 50 VRMS 35 VDC 50 I(AV) IFSM VF IR trr CJ RθJA	VRRM 50 100 VRMS 35 70 VDC 50 100 I(AV) IFSM VF IR trr 15 CJ R@JA	V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I(AV) IFSM VF IR trr 150 CJ RθJA	V _{RRM} 50 100 200 400 V _{RMS} 35 70 140 280 V _{DC} 50 100 200 400 I _(AV) 1.0 I _{FSM} 30.0 V _F 1.3 I _R 5.0 50.0 t _{Tr} 150 C _J 15.0 R _θ _{JA} 88.0	V _{RRM} 50 100 200 400 600 V _{RMS} 35 70 140 280 420 V _{DC} 50 100 200 400 600 I _(AV) 1.0 I _{FSM} 30.0 V _F 1.3 I _R 5.0 50.0 t _T 150 250 C _J 15.0 R _θ _{JA} 88.0	V _{RRM} 50 100 200 400 600 800 V _{RMS} 35 70 140 280 420 560 V _{DC} 50 100 200 400 600 800 I _(AV) 1.0 I _{FSM} 30.0 V _F 1.3 I _R 5.0 50.0 t _T 150 250 500 C _J 15.0 R _θ _{JA} 88.0	V _{RRM} 50 100 200 400 600 800 1000 V _{RMS} 35 70 140 280 420 560 700 V _{DC} 50 100 200 400 600 800 1000 I _(AV) 1.0 I _{FSM} 30.0 V _F 1.3 I _R 5.0 t _{rr} 150 250 500 C _J R _θ _{JA} 88.0

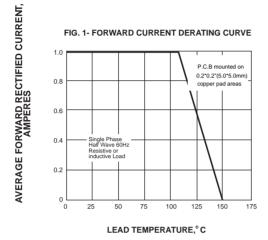
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

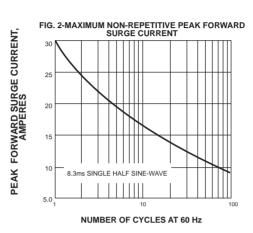
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

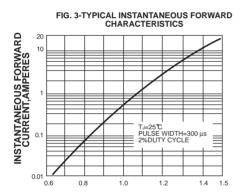
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

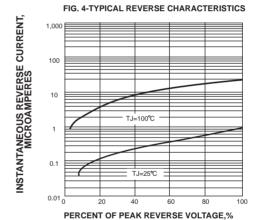


TYPICAL RATINGS AND CHARACTERISTIC CURVES RS1AF THRU RS1MF

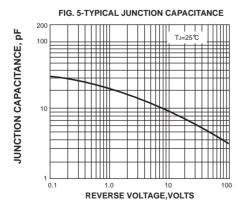


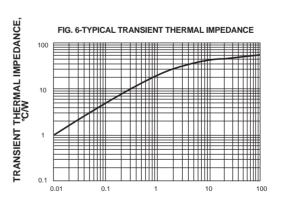












t,PULSE DURATION,sec.