

**SFA40PME  
 thru  
 SFA60PME**

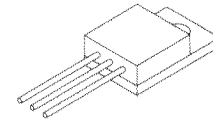
**6 AMP  
 400-600 VOLTS  
 40 nsec  
 HYPER FAST  
 POSITIVE CENTERTAP  
 RECTIFIER**

**Designer's Data Sheet**

**FEATURES:**

- Hyper Fast Recovery: 40 nsec Maximum
- PIV to 600 Volts
- Isolated Low Profile Package
- Hermetically Sealed SPD506 Discretes
- Void Free Construction
- For High Efficiency Applications
  
- For Common Anode Configuration:  
 SFA40NME-SFA60NME
- For Doubler Configuration:  
 SFA40DME-SFA60DME
  
- TX and TXV Level Screening available

TO-254 (ME)



**MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM VRWM VR	400 200 600	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	6	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C)	IFSM	150	Amps
Operating and storage temperature	Top & Tstg	-65 to +150	°C
Maximum Thermal Resistance Junction to Case	RθJC	2.5	°C/W

NOTE: All specifications are subject to change without notification.  
 SCD's for these devices should be reviewed by SSDI prior to release.

**DATA SHEET#: RH0109 A**

**RMD**

# SFA40PME thru SFA60PME

PRELIMINARY



SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada, CA 90638  
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

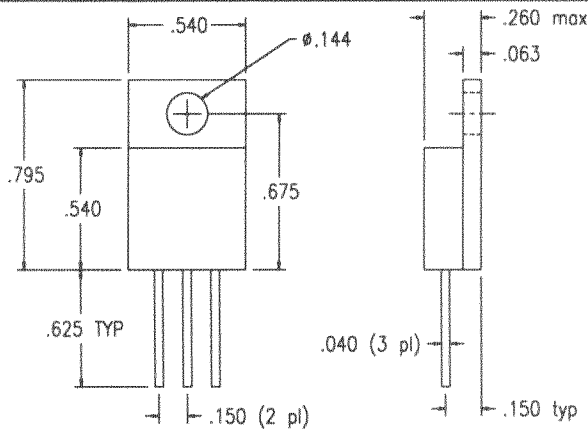
## ELECTRICAL CHARACTERISTICS (Per Leg)

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 6 Adc, TA=25°C, 300µs Pulse)	VF	1.35	Vdc
Instantaneous Forward Voltage Drop (IF =6 Adc, TA= - 55°C, 300µs Pulse)	VF	1.5	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR	20	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR	5	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz )	CJ	100	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	trr	40	nsec

## CASE OUTLINE: EPOXY TO-254

### PIN OUT:

- PIN 1: Anode 1
- PIN 2: Cathode
- PIN 3: Anode 2



## TYPICAL OPERATING CURVES

TA=25°C Unless otherwise specified

