

**SFA40PME
 thru
 SFA60PME**

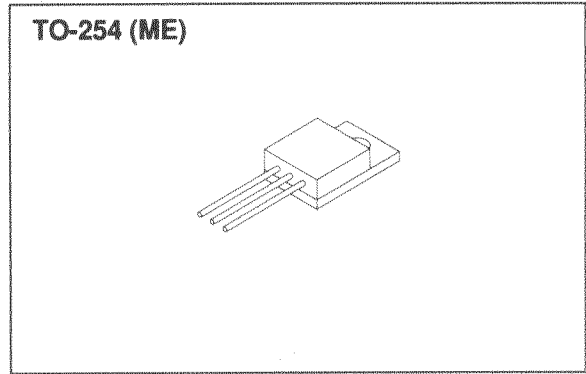
Designer's Data Sheet

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

- 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



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 |

SFA40PME thru SFA60PME

PRELIMINARY



SOLID STATE DEVICES, INC

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

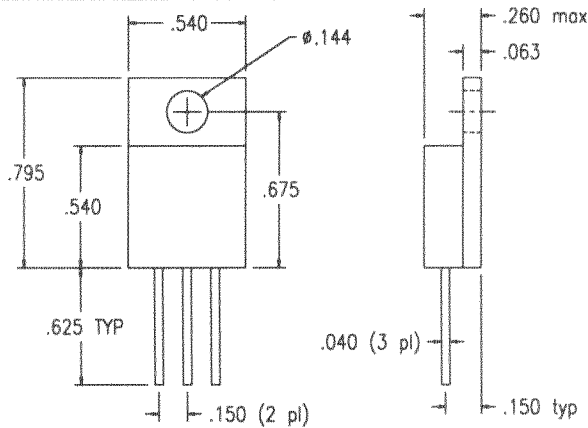
ELECTRICAL CHARACTERISTICS (Per Leg)

| 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

