S40L150FCT

Excellent Schottky Rectifier

REVERSE VOLTAGE - 150 Volts FORWARD CURRENT - 40.0 Amperes

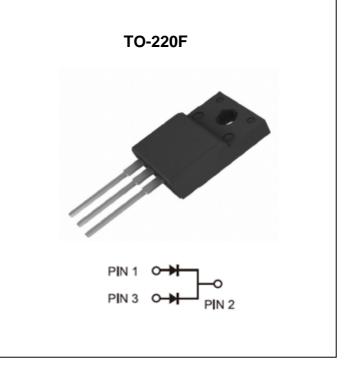
FEATURES

- · Low power loss, high efficiency
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- Excellent high temperature stability
- Excellent Schottky technology

MECHANICAL DATA

Case: TO-220 FPolarity: As marked

Weight: Approximated 2.015 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

For capacitive load. derate current by 20%

Characteristics	Symbol	Value		Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	150		V
RMS Reverse Voltage	V _{RMS}	105		V
Forward Voltage Drop		Тур.	Max.	
IF=5A @25°C		0.65	-	
IF=20A @ 25°C	V_{F}	-	0.85	V
Maximum Reverse Current at Rated V_{RRM} T_J =25°C T_J =125°C	I _R	0.2 25		mA
Typical Thermal Resistance	R _{eJC}	3		°C/W
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	250		А
Operating Temperature Range	TJ	-55 to +150		°C
Operating and StorageTemperature Range	T _{STG}	-55 to +175		°C



Rating and Characteristic Curves

FIG. 1-Typical Forward Current Derating Curve

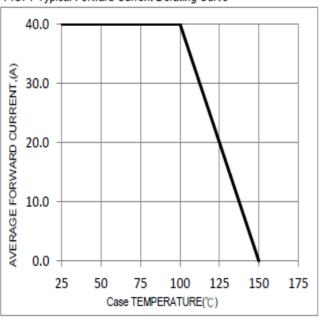


FIG. 2-Typical Forward Characteristics

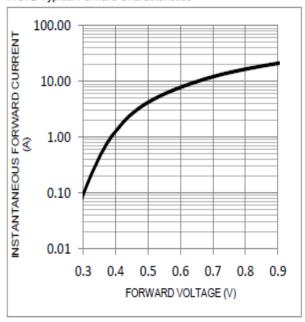


FIG. 3-Maximum Non-Repetitive Forward Surge Current

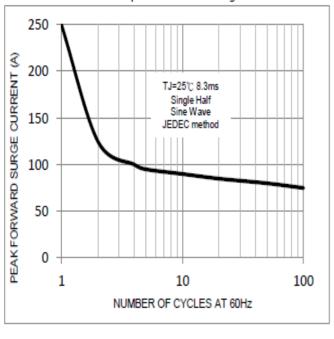


FIG. 4-Typical Reverse Characteristics

