沛倫股份有限公司
Compact Technology Corp.

S30L100FCT

Excellent Schottky Rectifier	REVERSE VOLTAGE - 100 Volts FORWARD CURRENT - 30.0 Amperes

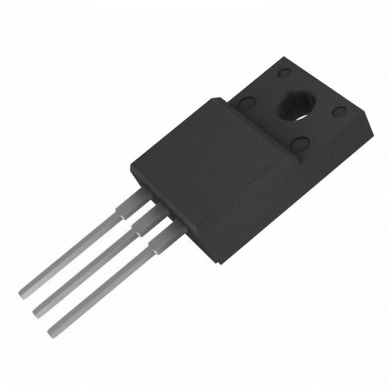
FEATURES

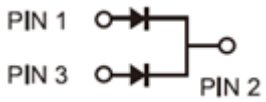
- Low power loss, high efficiency
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- Excellent high temperature stability
- Excellent Schottky technology

MECHANICAL DATA

- Case: TO-220F
- Polarity: As marked
- Weight: Approximated 1.6 grams

TO-220F





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Characteristics	Symbol	Value		Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100		V
RMS Reverse Voltage	V_{RMS}	70		V
Forward Voltage Drop I_F=15A (T$_J$=25℃) I_F=15A (T$_J$=125℃)	V_F	Typ. - -	Max. 0.69 0.63	V
Maximum Reverse Current at Rated V_{RRM} T$_J$=25°C T$_J$=125°C	I_R	Max. 200 25		μA mA
Maximum Average Forward Rectified Current Total device Per diode	I_O	30 15		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	200		A
Peak Repetitive Reverse Current at tp=2 μs, 1 kHz,	I_{RRM}	1.0		A
Operating and StorageTemperature Range	T$_J$, T$_{STG}$	-55 to +150		°C

Rating and Characteristic Curves

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

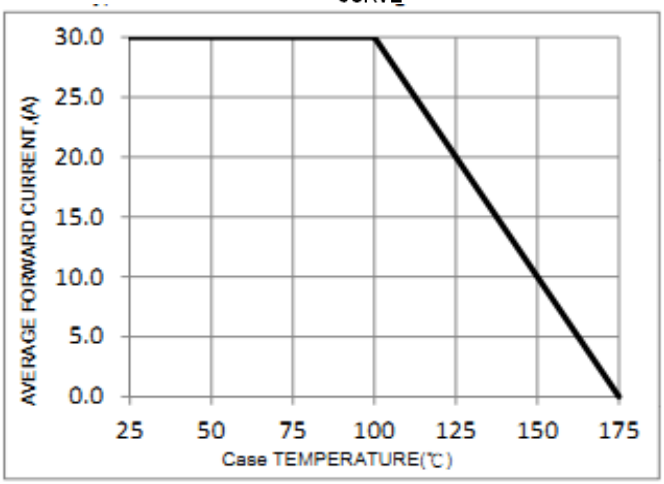


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

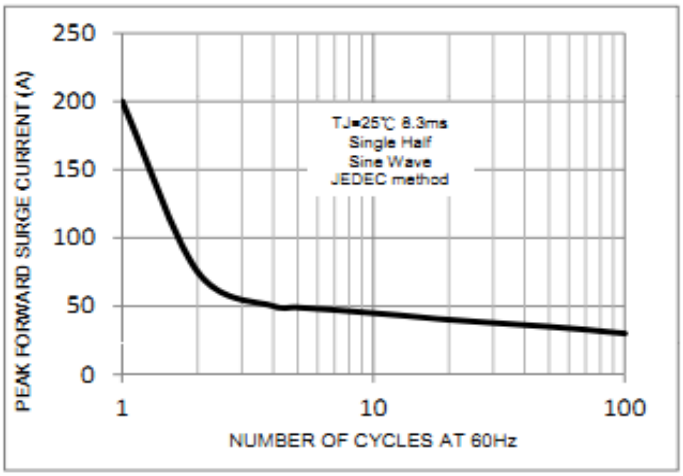


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

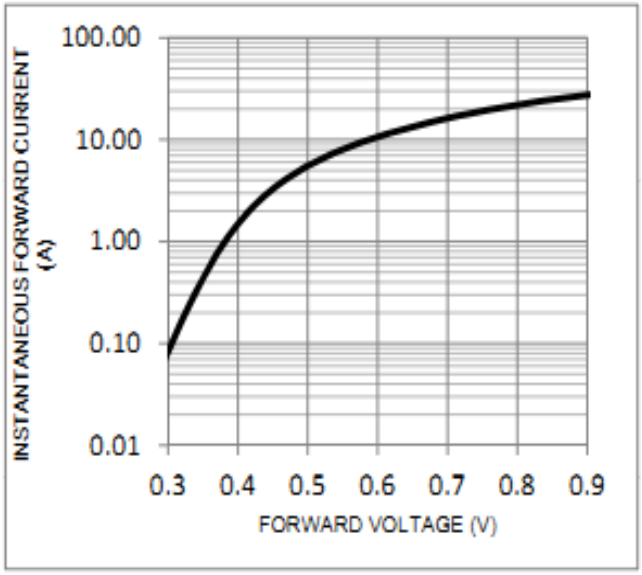


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG