

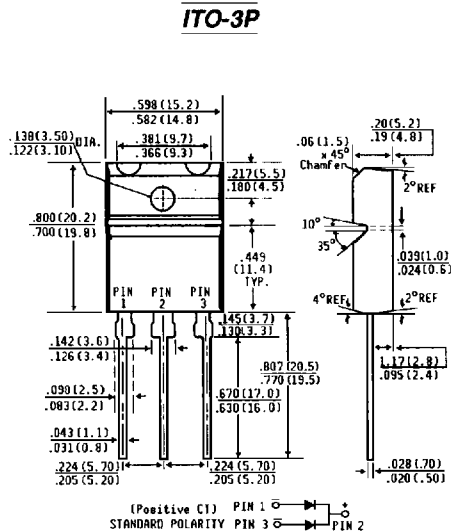
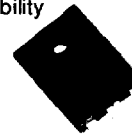
SBLF3030PT AND SBLF3040PT

SCHOTTKY RECTIFIER

VOLTAGE RANGE - 30 and 40 Volts CURRENT - 30.0 Amperes

FEATURES

- ◆ Dual rectifier construction, positive center-tap
- ◆ Isolated Plastic (1500 V_{RMS}) package has Underwriters Laboratory Flammability Classifications 94V-O
- ◆ Metal to silicon rectifier, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ High current capability, low V_F
- ◆ High surge capacity
- ◆ Epitaxial construction
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- ◆ High temperature soldering guaranteed: 250°C/10 seconds, 17 (4.3mm) from case
- ◆ Guardring for transient protection
- ◆ Internal Insulation: 1.5k V_{RMS}



Dimensions in inches
and
(millimeters)

MECHANICAL DATA

Case: ITO-3P Fully Overmolded Plastic

Terminals: Lead solderable per MIL-STD-750, Method 2026

Polarity: As marked

Mounting Position: Any

Mounting Torque: 5 in.-lb. max.

Weight: .47 ounces, 13.2 ounces

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Resistive or inductive load.

	SYMBOLS	SBLF3030PT	SBLF3040PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	40	Volts
Maximum RMS Voltage	V _{RMS}	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	30	40	Volts
Maximum Average Forward Rectified Current at T _C =100°C	I _(AV)	30.0		Amps
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	275.0		Amps
Maximum Instantaneous Forward Voltage per leg at I _F =15A, T _C =25°C (NOTE 2)	V _F	0.55		Volts
Maximum Instantaneous Reverse Current at T _C =25°C Rated DC Blocking Voltage per leg (NOTE 2) T _C =100°C	I _R	75.0		mA
Maximum Thermal Resistance (NOTE 1)	R _{ΘJC}	2.5		°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-40 to +125		°C

NOTES:

1. Thermal Resistance from Junction to Case per leg.
2. Pulse Test: 300μs Pulse Width, 2% Duty Factor.

RATINGS AND CHARACTERISTIC CURVES SBLF3030PT AND SBLF3040PT

FIG. 1 — FORWARD CURRENT DERATING CURVE

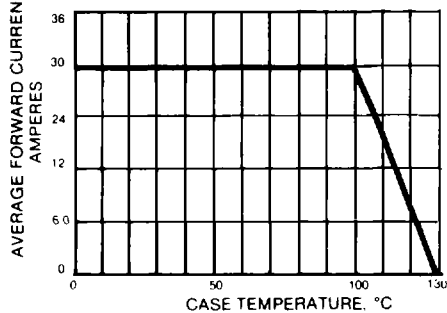


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

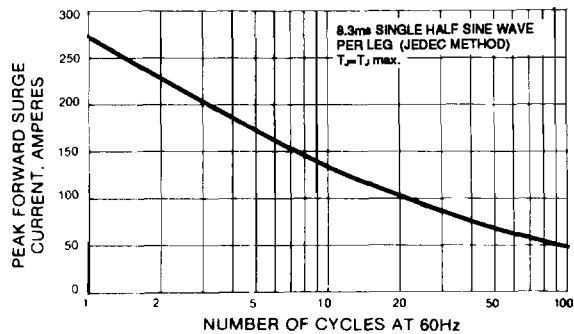


FIG. 4 — TYPICAL FORWARD CHARACTERISTICS PER LEG

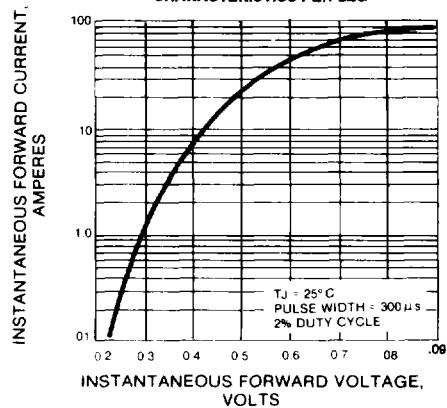


FIG. 3 — TYPICAL REVERSE CHARACTERISTICS PER LEG

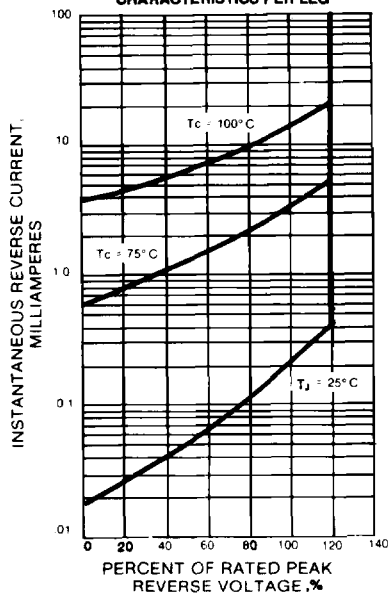


FIG. 5 — TYPICAL JUNCTION CAPACITANCE PER LEG

