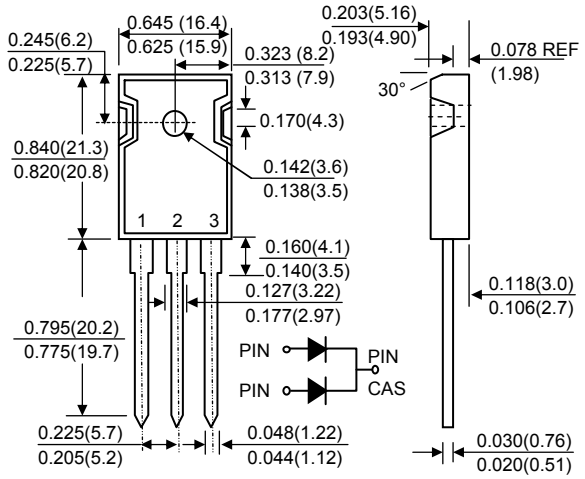
SBL2030PT ~ SBL2040PT

DUAL SCHOTTKY BARRIER RECTIFIERS

PRV : 30 ~ 40 Volts
Io : 20 Amperes

TO-247AD (TO-3P)



Dimensions in inches and (millimeters)

FEATURES :

* Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
* Dual rectifier construction, positive center tap
* Metal silicon junction, majority carrier conduction
* Low power loss, high efficiency
* High curent capability, low forward voltage drop
* High surge capability
* Guardring for overvoltage protection
* For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
* Pb / RoHS Free

MECHANICAL DATA :

* Case : TO-247AD Molded plastic
* Polarity : As marked on the body
* Mounting position : Any
* Weight : 5.6 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SBL2030PT	SBL2040PT	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	30	40	V
Maximum Working Peak Reverse Voltage	V_{RWM}	21	28	V
Maximum DC Blocking Voltage	V_{DC}	30	40	V
Maximum Average Forward Rectified Current at T_C = 100 °C	$I_{F(AV)}$	20		A
Peak Forward Surg Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) Per leg	I_{FSM}	250		A
Maximum Instantaneous Forward Voltage at 10A (Note 1)	V_F	0.6		V
Maximum Instantaneous Reverse Current T_C = 25 °C	I_R	1.0		mA
Per leg at Rate DC Blocking Voltage (Note 1) T_C = 100 °C		50		
Typical Thermal Resistance (Junction to Case) Per Leg	$R_{\theta JC}$	1.5		°C/W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-40 to + 125		°C

Note :

(1) Pulse test : 300 μs pluse width, 1% duty cycle

RATING AND CHARACTERISTIC CURVES (SBL2030PT ~ SBL2040PT)

FIG.1 - FORWARD CURRENT DERATING CURVE

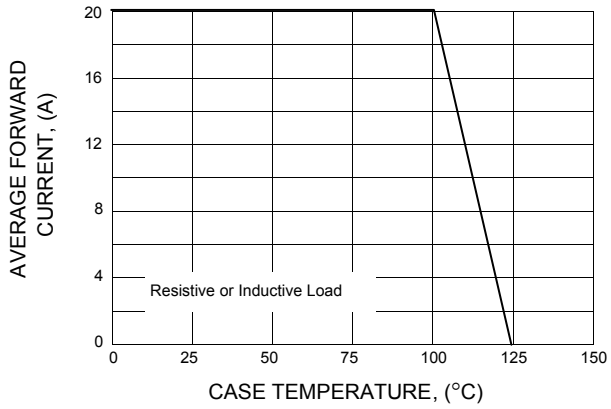


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

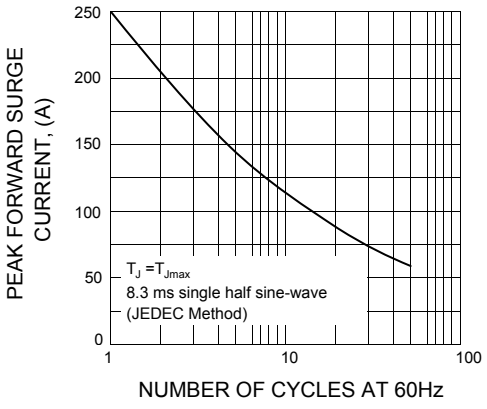


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

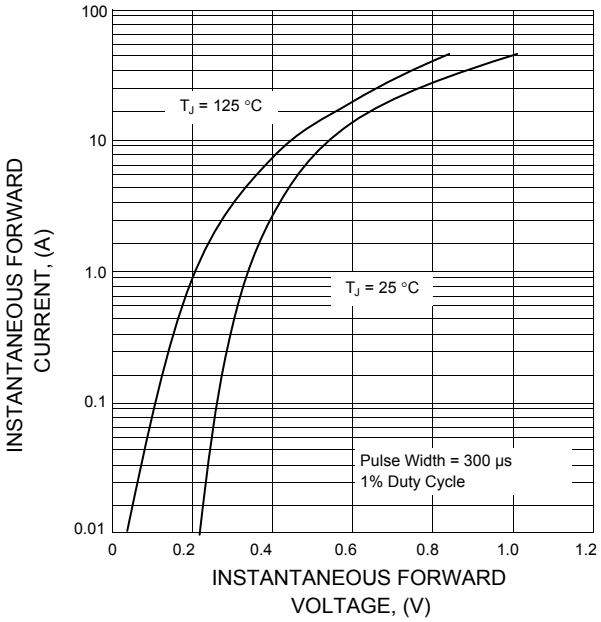


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

