LITE-ON LITEON SEMICONDUCTOR

SBL6030PT thru 6060PT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE FORWARD CURRENT

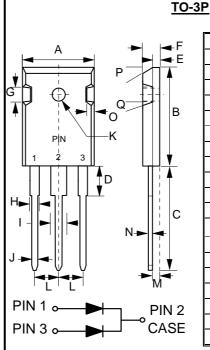
- 30 to 60 Volts - 60 Amperes

FEATURES

- Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- · Low power loss, high efficiency
- High current capability, low V_F
- High surge capacity
- · For use in low voltage, high frequency inverters, free wheeling and polarity protection applications

MECHANICAL DATA

- Case : TO-3P molded plastic
- · Case Material: Molding compound, UL flammability classification 94V-0
- Mounting position: Any
- Polarity : As marked on the body
- Weight: 6.372grams (Approximate)
- Max. mounting torque= 0.5N.m(5.1 Kgf.cm)



TO-3P MIN MAX DIM А 15.75 16.25 В 21.25 21.75 С 19.60 20.10 D 3.78 4.38 Е 1.88 2.08 F 4.87 5.13 G 4.4TYP Н 1.90 2.16 I 2.93 3.22 1.22 J 1.12 Κ 2.90Φ 3.20**Φ** 5.20 5.70 L Μ 2.40 2.10 0.76 Ν 0.51 0 1.93 2.18 Ρ 20° TYP Q 10° TYP All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwis e specified.

ABSOLUTE RATINGS

PARAMETER			SYMBOL	SBL6030PT	SBL6040PT	SBL6045PT	SBL6050PT	SBL6060PT	UNIT
Maximum repetitive peak reverse voltage			V _{RRM}	30	40	45	50	60	V
Maximum DC Blocking voltage			V _{DC}	30	40	45	50	60	V
Maximum Average rectified f current	ximum Average rectified forward @Tc=100°C		I _F	60					
Peak forward surge 8.3ms single half sine-wave superimposed on rated load			I _{FSM}	450					А
Operating temperature range			T _{J,}	-55 ~ +125					c
Storage temperature range			T _{STG}	-55 ~ +150					ĉ
STATIC ELECTRICAL	CHARA	CTERISTICS	S						
PARAMETER	TEST	CONDITION	SYMBOL			MAX		UNIT	
Forward voltage (Note 1)	I _F =30A	T _J = 25℃	V _F		0.55		0.	70	V
0		T _J = 25℃ T _J = 100℃	I _R	10 200					mA
Typical junction capacitance (Note 2)		C _j		1000		5	50	pF	
THERMAL CHARACTI	ERISTIC	S					•		
PARAMETER		SYMBOL	ТҮР					UNIT	

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 3)	RthJ _c	0.5	°C/W
Note :		REV. 7, Aug-2015, KT	HD13

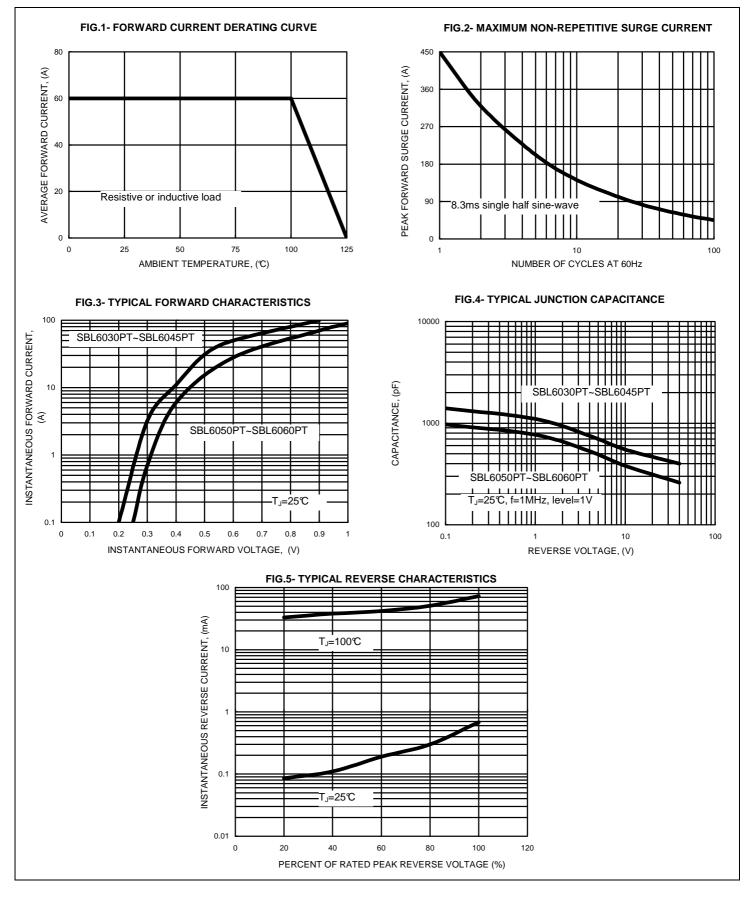
(1) 300us pulse with, 2% duty cycle

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 V_{DC}

(3) Thermal Resistance Junction Case

RATING AND CHARACTERISTIC CURVES SBL6030PT thru 6060PT

LITEON



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