

S60SC3LT

30V 60A

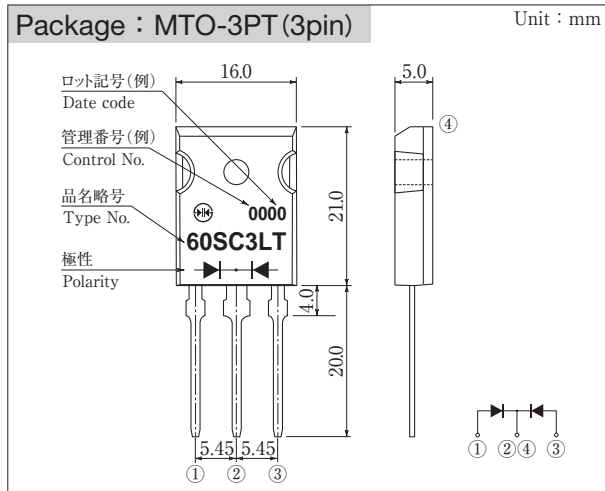
## 特長

- 低  $V_F$
- 低ノイズ
- 高速スイッチング

## Feature

- Low  $V_F$
- Low Noise
- High Recovery Speed

## ■ 外観図 OUTLINE



外形図については新電元 Web サイトをご参照下さい。捺印表示については捺印仕様をご確認下さい。

For details of the outline dimensions, refer to our web site. As for the marking, refer to the specification "Marking, Terminal Connection".

## ■ 定格表 RATINGS

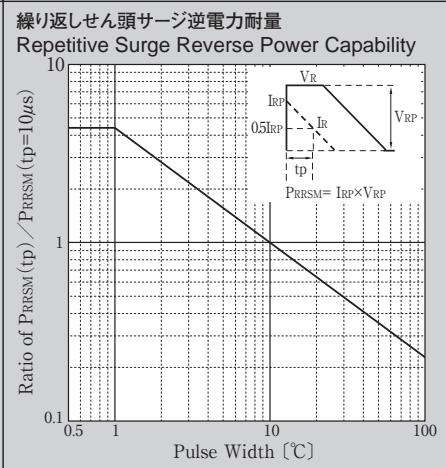
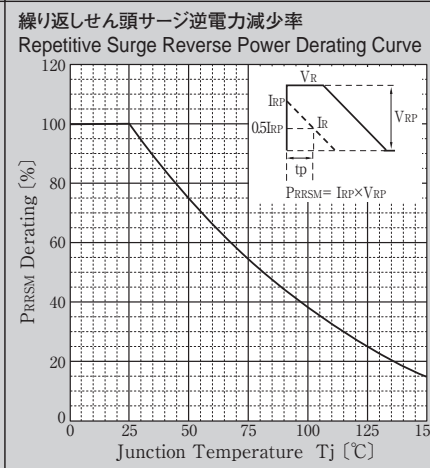
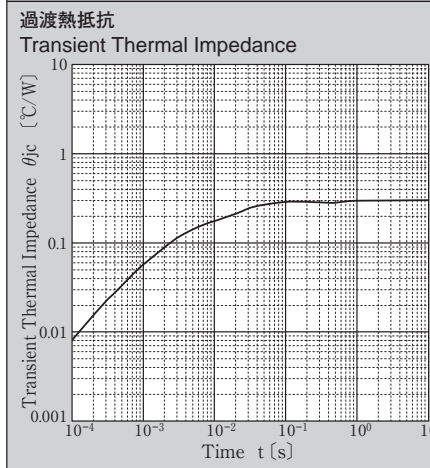
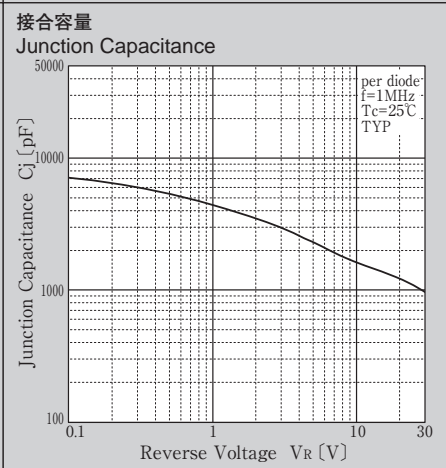
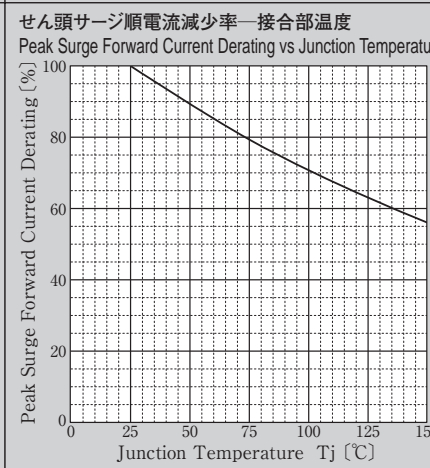
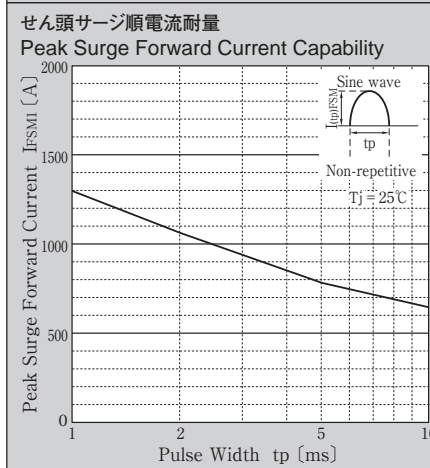
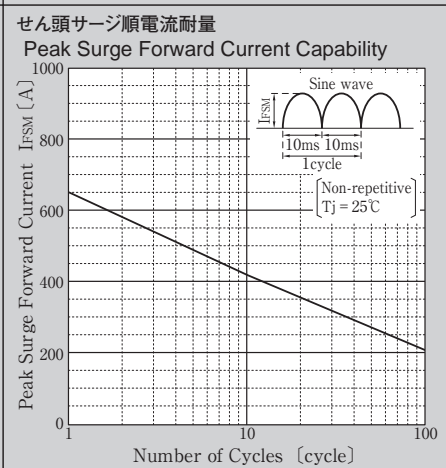
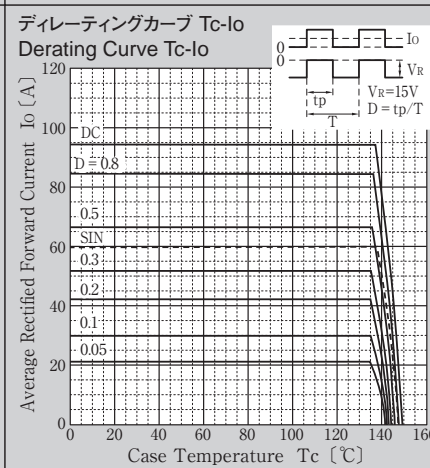
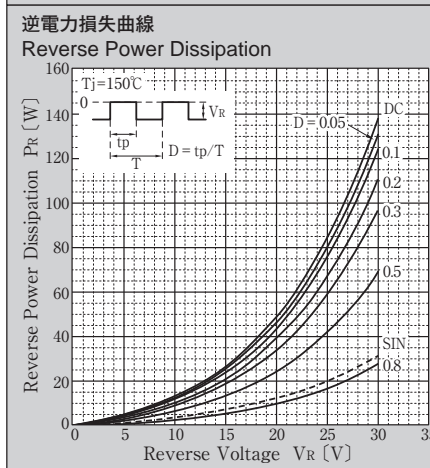
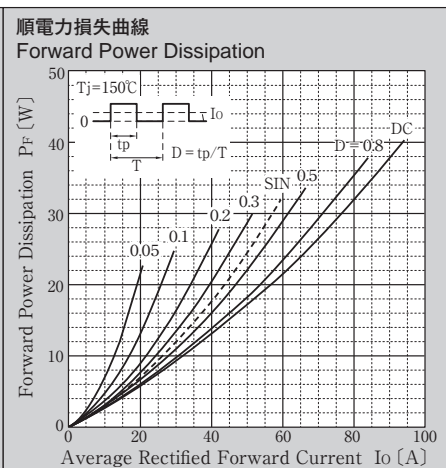
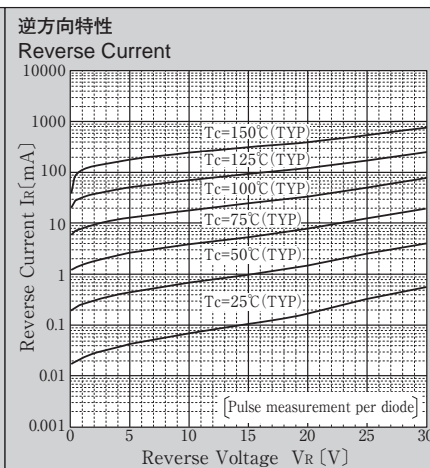
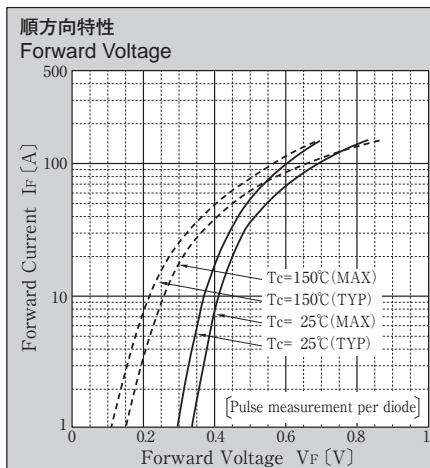
● 絶対最大定格 Absolute Maximum Ratings (指定のない場合は  $T_c = 25^\circ\text{C}$  / unless otherwise specified)

項目 Item	記号 Symbol	条件 Conditions	規格値 Ratings	単位 Unit
保存温度 Storage Temperature	$T_{stg}$		- 55 ~ 150	$^\circ\text{C}$
接合部温度 Operating Junction Temperature	$T_j$		150	$^\circ\text{C}$
せん頭逆電圧 Maximum Reverse Voltage	$V_{RM}$		30	V
繰り返しせん頭サージ逆電圧 Repetitive Peak Surge Reverse Voltage	$V_{RRSM}$	パルス幅 0.5ms, duty 1/40 Pulse width 0.5ms, duty 1/40	35	V
出力電流 Average Rectified Forward Current	$I_o$	50Hz 正弦波, 抵抗負荷, 一素子当りの出力電流平均値 $I_o/2$ , $T_c=138^\circ\text{C}$ 50Hz sine wave, Resistance load, Rating for each diode $I_o/2$ , $T_c=138^\circ\text{C}$	60	A
せん頭サージ順電流 Peak Surge Forward Current	$I_{FSM}$	50Hz 正弦波, 非繰り返し 1 サイクルせん頭値, $T_j=25^\circ\text{C}$ 50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	650	A
	$I_{FSM1}$	$t_p=1\text{ms}$ 正弦波, 非繰り返し 1 サイクルせん頭値, $T_j=25^\circ\text{C}$ $t_p=1\text{ms}$ Sine wave, Non-repetitive 1 cycle peak value, $T_j=25^\circ\text{C}$	1300	
繰り返しせん頭サージ逆電力 Repetitive Peak Surge Reverse Power	$P_{RRSM}$	パルス幅 10 $\mu\text{s}$ , 一素子当たり, $T_j=25^\circ\text{C}$ Pulse width 10 $\mu\text{s}$ , Per diode, $T_j=25^\circ\text{C}$	1000	W
締め付けトルク Mounting Torque	TOR	(推奨値 : 0.5N $\cdot$ m) (Recommended torque : 0.5N $\cdot$ m)	0.8	N $\cdot$ m

● 電氣的・熱的特性 Electrical Characteristics (指定のない場合は  $T_c = 25^\circ\text{C}$  / unless otherwise specified)

順電圧 Forward Voltage	$V_F$	$I_F = 30\text{A}$ , パルス測定, 一素子当りの規格値 Pulse measurement, Per diode	TYP 0.44 MAX 0.48	V
逆電流 Reverse Current	$I_R$	$V_R = 30\text{V}$ , パルス測定, 一素子当りの規格値 Pulse measurement, Per diode	MAX 25	mA
接合容量 Junction Capacitance	$C_j$	$f = 1\text{MHz}$ , $V_R = 10\text{V}$ 一素子当りの規格値 Per diode	TYP 1600	pF
熱抵抗 Thermal Resistance	$\theta_{jc}$	接合部・ケース間 Junction to case	MAX 0.3	$^\circ\text{C}/\text{W}$

■特性図 CHARACTERISTIC DIAGRAMS



\* Sine wave は 50Hz で測定しています。  
\* 50Hz sine wave is used for measurements.