

**S30SC4MT****40V 30A****特長**

- $T_j=150^{\circ}\text{C}$

- $\theta_{jc}$ が小さい
- 大電流容量

**用途**

- スイッチング電源
- DC/DCコンバータ
- 家電、ゲーム、OA機器
- 通信、ポータブル機器

**Feature**

- $T_j=150^{\circ}\text{C}$

- Small  $\theta_{jc}$
- High  $I_o$  Rating

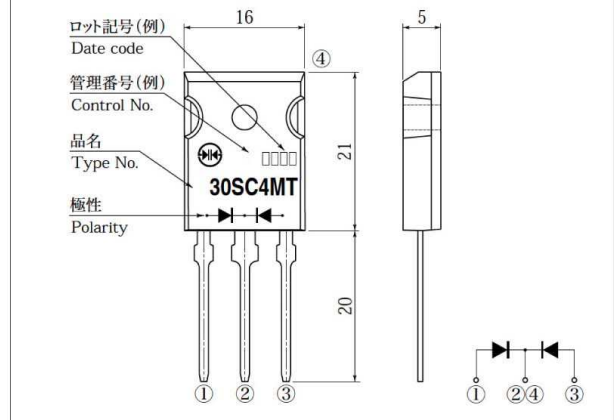
**Main Use**

- Switching Regulator
- DC/DC Converter
- Home Appliance, Game, Office Automation
- Communication, Portable set

**■外観図 OUTLINE**

Package : MTO-3PT

Unit : mm



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".

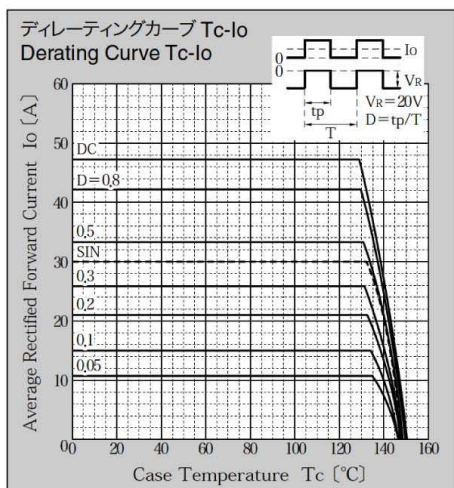
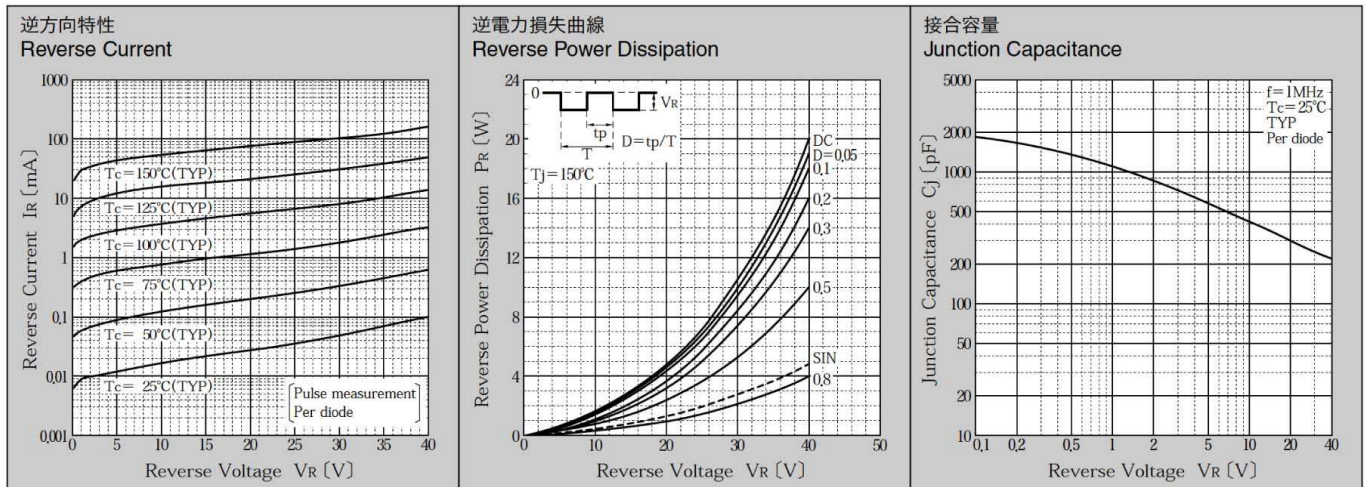
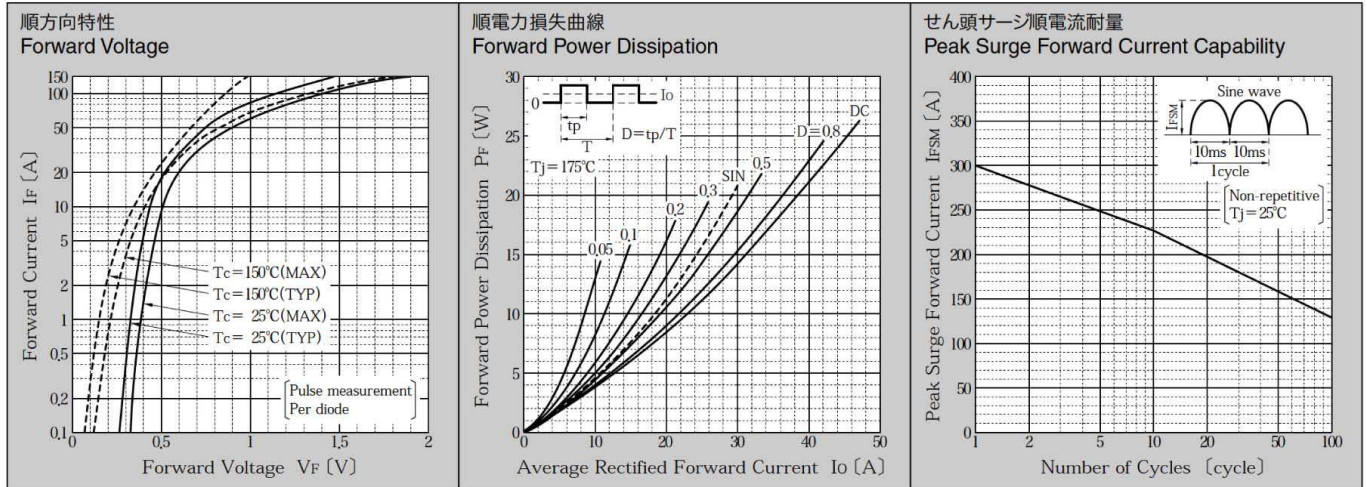
**■定格表 RATINGS****●絶対最大定格 Absolute Maximum Ratings (指定のない場合  $T_c = 25^{\circ}\text{C}$ /unless otherwise specified)**

項目 Item	記号 Symbol	条件 Conditions	品名 Type No.	S30SC4MT	単位 Unit
保存温度 Storage Temperature	$T_{stg}$			- 55 ~ 150	$^{\circ}\text{C}$
接合部温度 Operation Junction Temperature	$T_j$			150	$^{\circ}\text{C}$
せん頭逆電圧 Maximum Reverse Voltage	$V_{RM}$			40	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		45	V
出力電流 Average Rectified Forward Current	$I_o$	50Hz正弦波, 抵抗負荷, 1素子当りの出力電流平均値 $I_o/2$ , $T_c = 132^{\circ}\text{C}$ 50Hz sine wave, Resistance load, Per diode $I_o/2$ , $T_c = 132^{\circ}\text{C}$		30	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, $T_j = 25^{\circ}\text{C}$		300	A
締め付けトルク Mounting Torque	TOR	(推奨値: 0.5N·m) (Recommended torque: 0.5N·m)		0.8	N·m

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

順電圧 Forward Voltage	$V_F$	$I_F = 15\text{A}$ , パルス測定, 1素子当りの規格値 Pulse measurement, Per diode	MAX 0.55 TYP 0.49	V
逆電流 Reverse Current	$I_R$	$V_R = 40\text{V}$ , パルス測定, 1素子当りの規格値 Pulse measurement, Per diode	MAX 1.5	mA
接合容量 Junction Capacitance	$C_j$	$f = 1\text{MHz}$ , $V_R = 10\text{V}$ , 1素子当りの規格値 Per diode	TYP 410	pF
熱抵抗 Thermal Resistance	$\theta_{jc}$	接合部・ケース間 Junction to case	MAX 0.8	$^{\circ}\text{C}/\text{W}$

■特性図 CHARACTERISTIC DIAGRAMS



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