

SF10LC40UM

400V 10A

特長

- 高耐圧
- 高速スイッチング

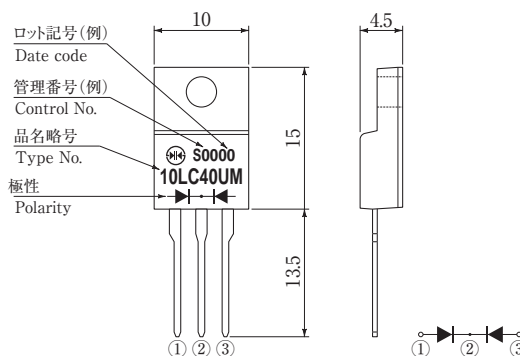
Feature

- High Voltage
- High Recovery Speed

■外観図 OUTLINE

Package : FTO-220AG

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

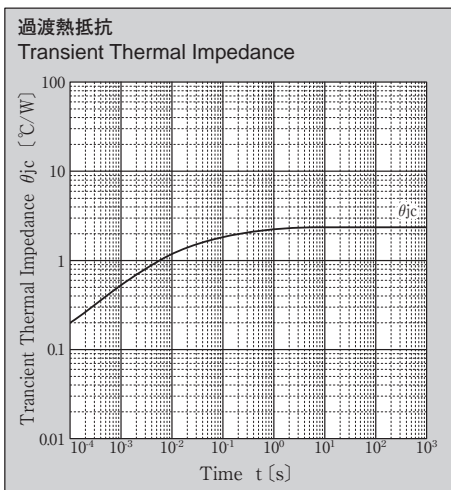
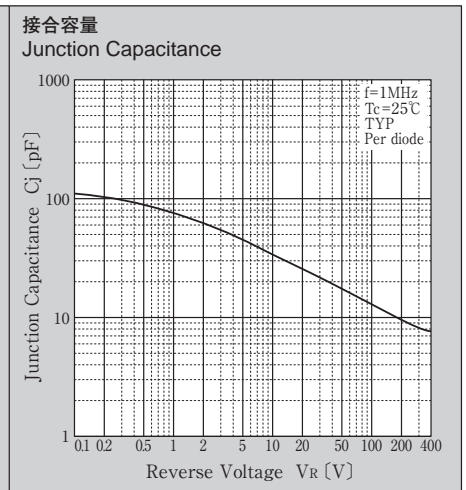
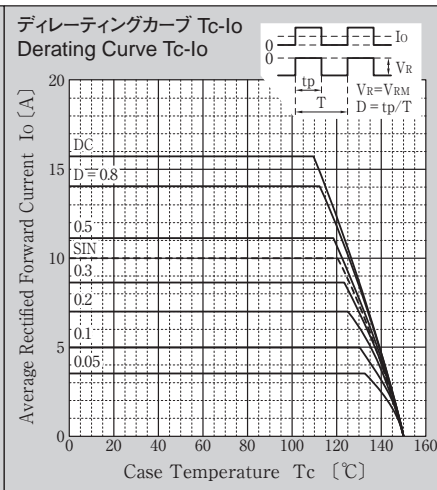
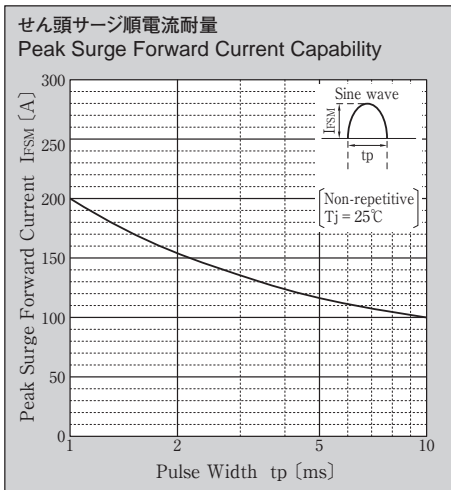
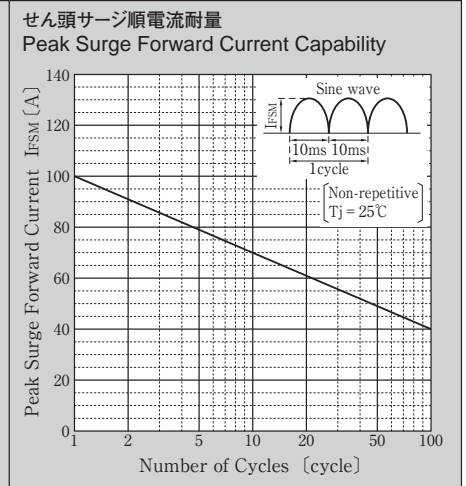
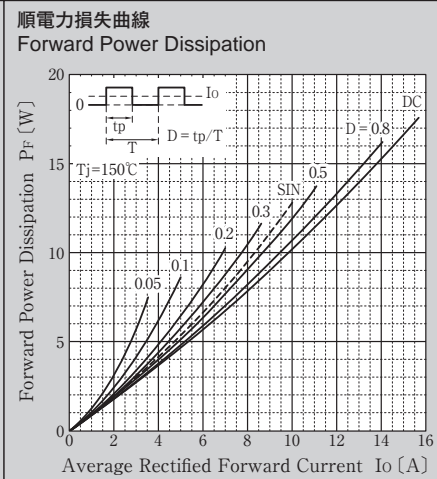
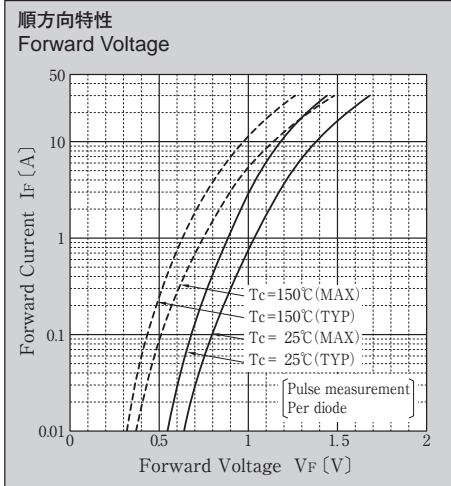
●絶対最大定格 Absolute Maximum Ratings (指定のない場合 $T_c = 25^\circ\text{C}$)

項目 Item	記号 Symbol	条件 Conditions	規格値 Ratings	単位 Unit
保存温度 Storage Temperature	Tstg		- 55 ~ 150	$^\circ\text{C}$
接合部温度 Operation Junction Temperature	Tj		150	$^\circ\text{C}$
せん頭逆電圧 Maximum Reverse Voltage	V_{RM}		400	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 $I_o/2$, $T_c = 120^\circ\text{C}$ 50Hz sine wave, Resistance load, Rating for each diode $I_o/2$, $T_c = 120^\circ\text{C}$	10	A
せん頭サーージ順電流 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, $T_j = 25^\circ\text{C}$	100	A
	I_{FSM1}	tp = 1ms, $T_j = 25^\circ\text{C}$, 非繰り返し tp = 1ms, $T_j = 25^\circ\text{C}$, Non-repetitive	200	
絶縁耐圧 Dielectric Strength	Vdis	一括端子・ケース間, AC 1分間印加 Terminals to case, AC 1 minute	2	kV
締め付けトルク Mounting Torque	TOR	(推奨値: $0.3\text{N}\cdot\text{m}$) (Recommended torque: $0.3\text{N}\cdot\text{m}$)	0.5	$\text{N}\cdot\text{m}$

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

順電圧 Forward Voltage	V_F	$I_F = 5\text{A}$, パルス測定, 1素子当りの規格値 Pulse measurement, Per diode	MAX 1.25 TYP 1.07	V
逆電流 Reverse Current	I_R	$V_R = 400\text{V}$, パルス測定, 1素子当りの規格値 Pulse measurement, Per diode	MAX 10	μA
逆回復時間 Reverse Recovery Time	trr	$I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $0.25 I_R$ 1素子当りの規格値 Per diode	MAX 30	ns
接合容量 Junction Capacitance	Cj	f = 1MHz, $V_R = 10\text{V}$ 1素子当りの規格値 Per diode	TYP 34	pF
熱抵抗 Thermal Resistance	θ_{jc}	接合部・ケース間 Junction to case	MAX 2.3	$^\circ\text{C}/\text{W}$

■特性図 CHARACTERISTIC DIAGRAMS



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