

TOSHIBA**SM10LZ47**

TOSHIBA BI-DIRECTIONAL TRIODE THYRISTOR SILICON PLANAR TYPE

SM10LZ47

AC POWER CONTROL APPLICATIONS

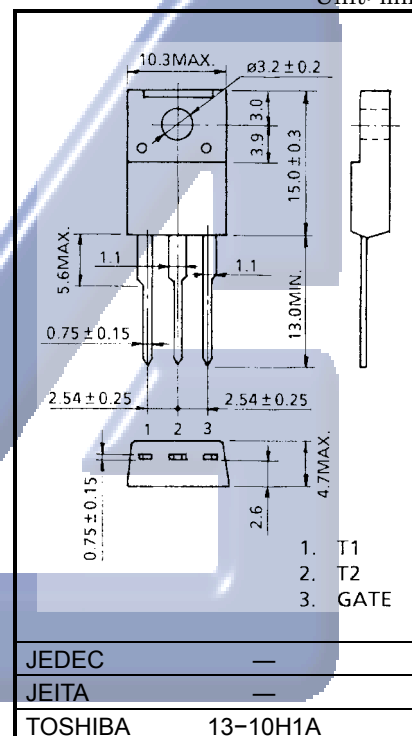
- Repetitive Peak Off-State Voltage : $V_{DRM} = 800V$
- R.M.S. On-State Current : $I_T (RMS) = 10A$
- High Commutation (dv / dt)
- Isolation Voltage : $V_{ISOL} = 1500V$ AC

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Off-State Voltage	V_{DRM}	800	V
R.M.S On-State Current (Full Sine Waveform)	$I_T (RMS)$	10	A
Peak One Cycle Surge On-State Current (Non-Repetitive)	I_{TSM}	100 (50Hz) 110 (60Hz)	A
I^2t Limit Value	I^2t	50	A^2s
Critical Rate of Rise of On-State Current (Note)	di / dt	50	A / μs
Peak Gate Power Dissipation	P_{GM}	5	W
Average Gate Power Dissipation	$P_G (AV)$	0.5	W
Peak Gate Voltage	V_{FGM}	10	V
Peak Gate Current	I_{GM}	2	A
Junction Temperature	T_J	-40~125	$^{\circ}C$
Storage Temperature Range	T_{stg}	-40~125	$^{\circ}C$
Isolation Voltage (AC, $t = 1min.$)	V_{ISOL}	1500	V

Note: di / dt test condition $V_{DRM} = 0.5 \times \text{Rated}$, $I_{TM} \leq 15A$, $t_{gw} \geq 10\mu s$, $t_{gr} \leq 250ns$, $i_{gp} = I_{GT} \times 2.0$

Unit: mm



Weight: 1.7g