

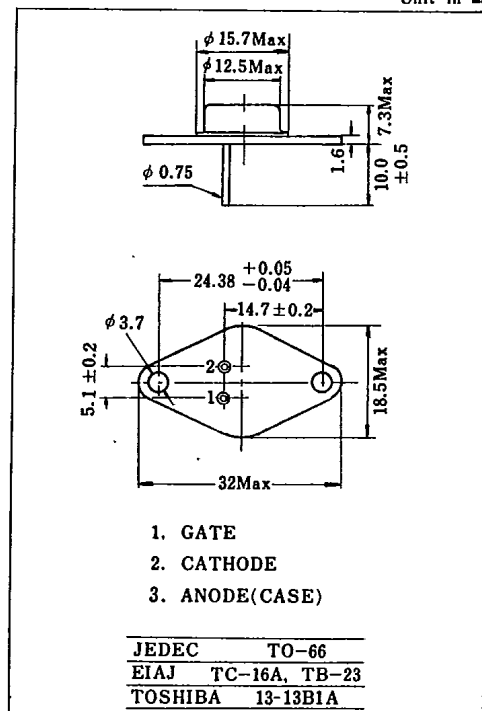
SF5G14

400V 5A

Unit in mm

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Off-State Voltage and Repetitive Peak Reverse Voltage	SF5B14	100	V
	SF5D14	200	
	SF5G14	400	
Non-Repetitive Peak Reverse Voltage (Non-Rep < 5ms)	SF5B14	180	V
	SF5D14	350	
	SF5G14	500	
Average On-State Current (Half Sine Waveform $T_c=75^\circ\text{C}$)	$I_T(AV)$	5.0	A
R.M.S. On-State Current	$I_T(RMS)$	7.8	A
Peak One Cycle Surge On-State Current (Non-Repetitive)	I_{TSM}	90 (50Hz)	A
Peak Gate Power Dissipation	P_{GM}	5	W
Average Gate Power Dissipation	$P_{G(AV)}$	0.5	W
Peak Reverse Gate Voltage	V_{RGM}	-5	V
Junction Temperature	T_j	-40~125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40~125	$^\circ\text{C}$



AC20C is furnished as an accessory.

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Repetitive Peak Off-State Current and Repetitive Peak Reverse Current	I_{DRM} and I_{RRM}	$V_{DRM}=V_{RRM}=\text{Rated}$ $T_j=125^\circ\text{C}$	-	-	750	μA
	Gate Trigger Current	I_{GT}	-	-	27	mA
Gate Trigger Voltage	V_{GT}	$V_D=6\text{V}, R_L=100\Omega, T_c=25^\circ\text{C}$	-	-	1.5	V
Gate Non-Trigger Voltage	V_{GD}	$V_D=6\text{V}, R_L=100\Omega, T_j=125^\circ\text{C}$	0.20	-	-	V
Peak On-State Voltage	V_{TM}	$I_{TM}=15\text{A}, T_c=25^\circ\text{C}$	-	-	1.5	V
Holding Current	I_H	$R_L=100\Omega, T_c=25^\circ\text{C}$	-	-	30	mA
	* $R_{th(j-c)}$	DC	-	-	4	$^\circ\text{C}/\text{W}$
	** $R_{th(j-a)}$	DC	-	-	70	

* Junction to Case

** Junction to Ambient.

GATE TRIGGERING CHARACTERISTICS

