

TOSHIBA {DISCRETE/OPTO}

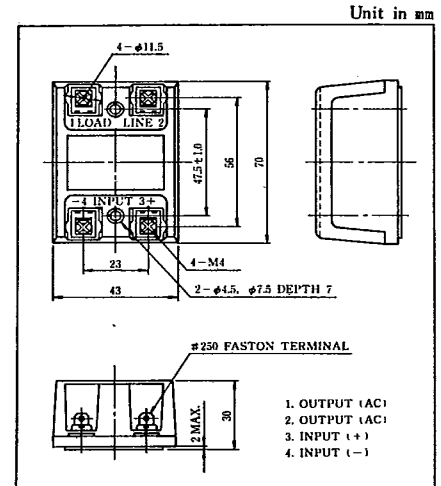
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TSS16J41S

600V 16A

MAXIMUM RATINGS

CHARACTERISTIC			SYMBOL	SNMBOL	UNIT
Output	Repetitive Peak Off-state Voltage	TSS16D41S	V _{DRM}	200	V
		TSS16G41S		400	
		TSS16H41S		500	
		TSS16J41S		600	
	RMS On-state Current		I _{T(RMS)}	16	A
Peak One Cycle Surge On-state Current (Non-Repititive)			I _{TSM}	165 (60Hz) 150 (50Hz)	A
Operating Frequency Range			f	45~65	Hz
Input	Control Input Voltage (DC)		V _{F(IN)}	6	V
	Control Input Current (DC)		I _{F(IN)}	20	mA
	Input Resistance	TSS16D41S	R _(IN)	300(Typical)	Ω
		TSS16G41S			
		TSS16H41S			
TSS16J41S		200			
Input/output	Isolation (t= 1 min.) Input to Output	AC	BV _s /AC	1500	V
		DC	BV _s /DC	2000	
	Operating Temperature Range		Top	-30~80	℃
	Storage Temperature Range		Tstg	-30~80	℃



ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
Input	Pick Up Voltage	V_{FT}	$V_{W(RMS)}=100V_{rms}$	—	—	4.5	V
	Pick Up Current	I_{FT}		—	—	8	mA
	Drop Out Voltage	V_{FD}		1	—	—	V
	Drop Out Current	I_{FD}		1	—	—	mA
Output	Off-state Leakage Current	I_{DR}	$V_{DR}=\text{Rated (DC Voltage)}$	—	—	10	mA
	Peak On-state Voltage	V_{TM}	$I_{TM}=25A$	—	—	1.4	V
	Peak Turn-on Voltage	V_{ON}	$V_{W(RMS)}=100V_{rms}$	—	—	7	V
	DC Holding Current	I_H	$R_L=100\Omega$	—	—	50	mA
	dv/dt (Off-state)	dv/dt	$V_{DRM}=0.7 \text{ Rated}$	50	—	—	V/ μs
	dv/dt (Commutating)	dv/dt (c)	$V_{DRM}=0.7 \text{ Rated} \quad I_T=16A$	2	—	—	V/ μs
	Input/output	Turn-on Time	ton	$V_{W(RMS)}=100V_{rms}$	—	—	1/2
Turn-off Time		toff	—		—	1/2	Cycle
Isolation Resistance		R_s	$V=1kV, R_H=40\sim60\%$	—	10^9	—	Ω

CHARACTERISTIC CURVES

