

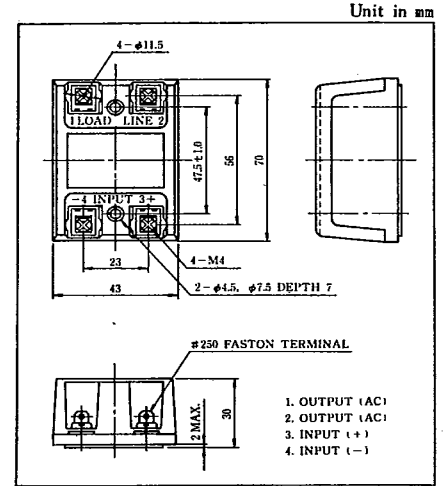
TOSHIBA (DISCRETE/OPTO)

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TSS16J41S 600V 16A

MAXIMUM RATINGS

CHARACTERISTIC		SYMBOL	SNMBOL	UNIT	
Output	Repetitive Peak Off-state Voltage	TSS16D41S	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-Repetitive)		I_{TSM}	165(60Hz) 150(50Hz)	A	
Operating Frequency Range		f	45~65	Hz	
Control Input Voltage (DC)		V_{FIN}	6	V	
Control Input Current (DC)		I_{FIN}	20	mA	
Input	Input Resistance	TSS16D41S TSS16G41S TSS16H41S	300(Typical)	Ω	
		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	$^{\circ}C$	
Storage Temperature Range		Tstg	-30~80	$^{\circ}C$	



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)	$V_{DRM}=0.7 \text{ Rated } I_T=16A$	2	-	-	V/ μs
Input/output	Turn-on Time	t_{on}	$V_{W(RMS)}=100V_{rms}$	-	-	1/2	Cycle
	Turn-off Time	t_{off}		-	-	1/2	Cycle
	Isolation Resistance	R_s		$V=1kV, R_H=40\sim60\%$	-	10^9	-

CHARACTERISTIC CURVES

