

TOSHIBA (DISCRETE/OPTO)

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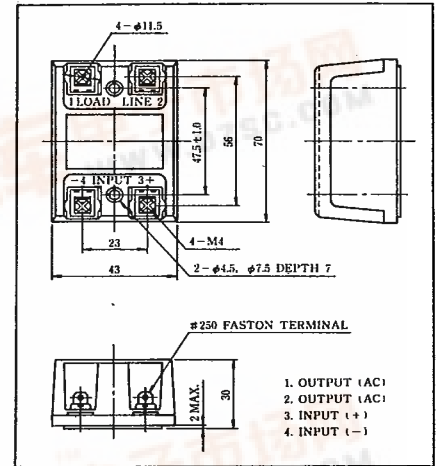
TSS16J41S

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	
Input	Control Input Voltage (DC)		$V_{F(IN)}$	6	V
	Control Input Current (DC)		$I_{F(IN)}$	20	mA
	Input Resistance	TSS16D41S TSS16G41S TSS16H41S	$R_{(IN)}$	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	℃
	Storage Temperature Range		Tstg	-30~80	℃

Unit in mm



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	$V = 1kV, R_H = 40 \sim 60\%$	—	10^9	—	Ω

CHARACTERISTIC CURVES

