

TOSHIBA (DISCRETE/OPTO)

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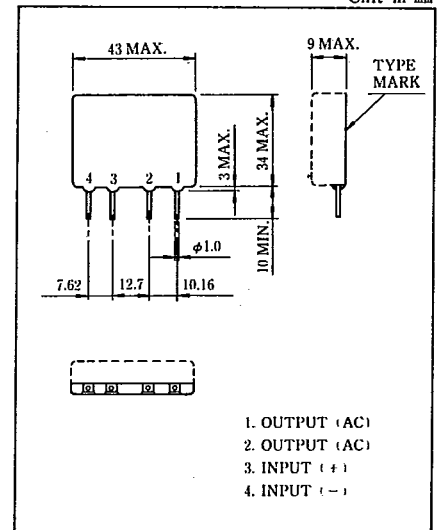
TSS1J44

600V 1A

Unit in mm

MAXIMUM RATINGS

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Output	Repetitive Peak Off-state Voltage	TSS1D44	200	V	
		TSS1G44	400		
		TSS1H44	500		
		TSS1J44	600		
	RMS On-state Current	$I_{T(RMS)}$	1	A	
Peak One Cycle Surge On-state Current (Non-Repetitive)		I_{TSM}	13(60Hz) 12(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	$R_{(IN)}$	300(Typical)	Ω	
Input/output	Isolation (t = 1 min.)	AC	BVs/AC	V	
		DC	BVs/DC		
	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}	$I_{TM} = 6 A$	-	-	2.6	V
	Peak Turn-on Voltage	V_{ON}	$V_{W(RMS)}=100V_{rms}$	-	-	5	V
	DC Holding Current	I_H	$R_L = 100\Omega$	-	-	25	mA
	dv/dt (Off-state)	dv/dt	$V_{DRM} = 0.7 \text{ Rated}$	50	-	-	V/ μs
Input/output	dv/dt (Commutating)	dv/dt (c)	$V_{DRM} = 0.7 \text{ Rated } I_T=1A$	2	-	-	V/ μs
	Turn-on Time	ton	$V_{W(RMS)}=100V_{rms}$	-	-	1/2	Cycle
	Turn-off Time	toff		-	-	1/2	Cycle
	Isolation Resistance		R_s	$V=1kV, R_H=40\sim60\%$	-	10^9	-

CHARACTERISTIC CURVES

