SSR (ZERO-CROSS TYPE)

TYPE CODE OF SSR TSS 16 J 41 S

- S : Snubber circuit built in
- No Mark : No suubber circuit

SHAPE : (refer to the annexed table and the external view.)

- D : V_{DRM} = 200V
- G : V_{DRM} = 400V
- H : V_{DRM} = 500V
- J : V_{DRM} = 600V

- 1 : $I_{T(RMS)}$ = 1 A_{RMS}
- 2 : $I_{T(RMS)}$ = 2 A_{RMS}
- 16 : $I_{T(RMS)}$ = 16 A_{RMS}
- 25 : $I_{T(RMS)}$ = 25 A_{RMS}

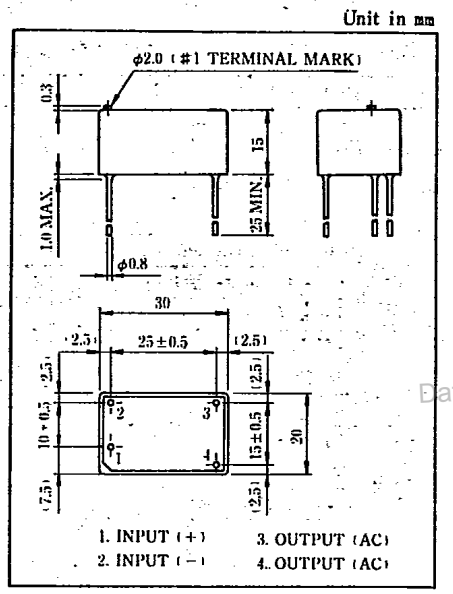
- TSS : TOSHIBA solid-state AC relay zero-cross type
- TSZ : TOSHIBA solid-state AC relay non-zero-cross type

TSS1J41 600V 1A

MAXIMUM RATINGS

	CHARACTERISTIC		SYMBOL	RATING	UNIT
Output	Repetitive Peak Off-state Voltage	TSS1D41	V_{DRM}	200	V
		TSS1G41		400	
		TSS1H41		500	
		TSS1J41		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 (Input to Output, t=1min)	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

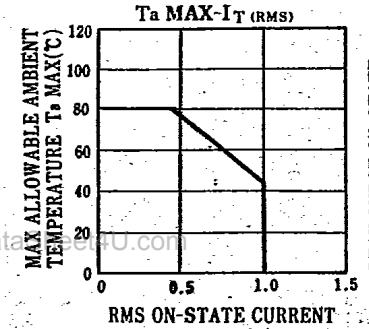


ELECTRICAL CHARACTERISTICS

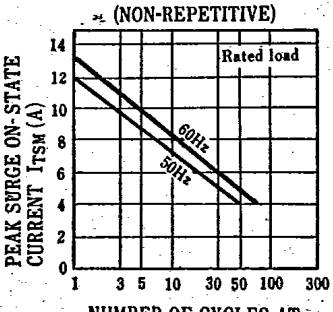
	CHARACTERISTIC	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
Input	Pick Up Voltage	V_{FT}	$V_{W(RMS)}$=100Vrms	—	—	4.5	V
	Pick Up Current	I_{FT}		—	—	8	mA
	Drop Out Voltage	V_{FD}		0.5	—	—	V
	Drop Out Current	I_{FD}		1	—	—	mA
Output	Off-state Leackage Current	I_{DR}	V_{DR}=Rated (DC Voltage)	—	—	10	mA
	Peak On-state Voltage	V_{TM}	I_{TM}= 6 A	—	—	2.6	V
	Peak Turn-on Voltage	V_{ON}	$V_{W(RMS)}$=100Vrms	—	—	5	V
	DC Holding Current	I_H	R_L=100Ω	—	—	25	mA
	dv/dt (Off-state)	dv/dt	V_{DRM} =0.7 Rated	50	—	—	V/μs
	dv/dt (Commutating)	dv/dt (c)	V_{DRM} =0.7 Rated	2	—	—	V/μs
Input/output	Turn-on time	ton	$V_{W(RMS)}$=100Vrms	—	—	1/2	Cycle
	Turn-off time	toff		—	—	1/2	Cycle
	Isolation Resistance	Rs	V=1kV, R_H=40~60%	—	10^9	—	Ω

CHARACTERISTIC CURVES

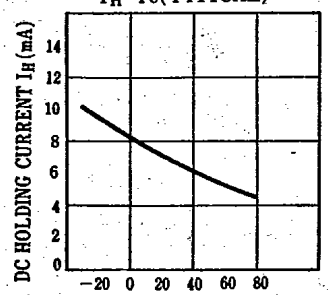
Ta MAX-$I_{T(RMS)}$



SURGE ON-STATE CURRENT (NON-REPETITIVE)



I_H-Tc(TYPICAL)



$P_{T(AV)}$−$I_{T(RMS)}$