

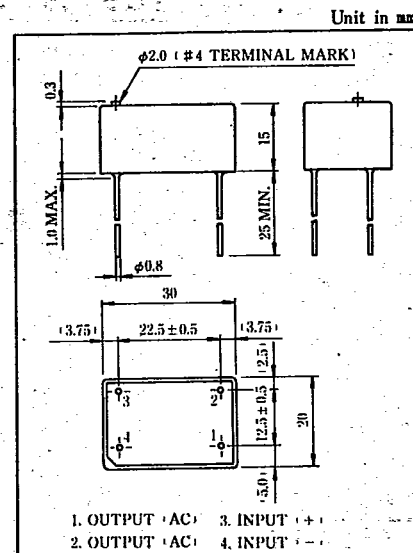
SSR (ZERO-CROSSTYPE)

TSS1J42

600V 1A

MAXIMUM RATINGS

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Output	Repetitive Peak Off-state Voltage	TSS1D42	200	V	
		TSS1G42	400		
		TSS1H42	500		
		TSS1J42	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	$^{\circ}C$	
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}		0.5	—	—	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}	$I_{TM}=6A$	—	—	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
	dv/dt (Commutating)	dv/dt (c)	$V_{DRM}=0.7\text{ Rated}$	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

