查询SH0R3D42供应商 TOSHIBA

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TOSHIBA HIGH SPEED THYRISTOR SILICON PLANAR TYPE

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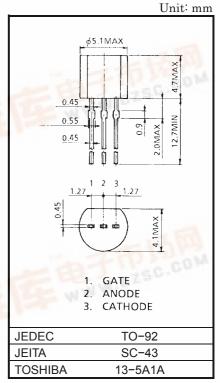
HIGH SPEED SWITCHING AND CONTROL APPLICATIONS

- Repetitive Peak Off-State Voltage : V_{DRM} = 200V
 - Average On–State Current IT (AV) = 300 mA
- Plastic Mold Type.

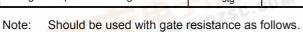
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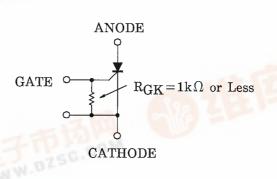
MAXIMUM RATINGS

CHARACTERISTIC CONTRACT	SYMBOL	RATING	UNIT		
Repetitive Peak Off-State Voltage (R _{GK} = 1kΩ)	V _{DRM}	200	V		
Non-Repetitive Peak Off-State Voltage (R _{GK} = 1kΩ)	V _{DSM}	250	V		
Average On-State Current (Half Sine Waveform Ta = 30°C)	I _{T (AV)}	300	mA		
R.M.S On-State Current	I _{T (RMS)}	450	mA		
Peak One Cycle Surge On-State Current (Non-Repetitive)	ITSM	7 (50Hz)	А		
I ² t Limit Value	l ² t	0.3	A ² s		
Peak Gate Power Dissipation	P _{GM}	0.1	W		
Average Gate Power Dissipation	P _{G (AV)}	0.01	W		
Peak Forward Gate Voltage	V _{FGM}	3.5	V		
Peak Reverse Gate Voltage	V _{RGM}	-7	V		
Peak Forward Gate Current	I _{GM}	125	mA		
Junction Temperature	Tj	-40~125	°C		
Storage Temperature Range	T _{stg}	-40~125	°C		



Weight: 0.2g





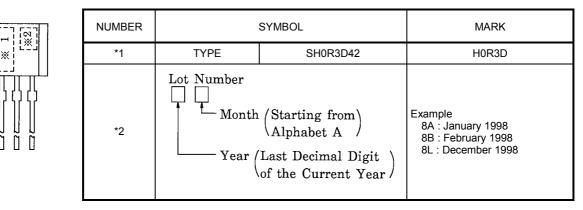


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ELECTRICAL CHARACTERISTICS (Ta = 25°C)

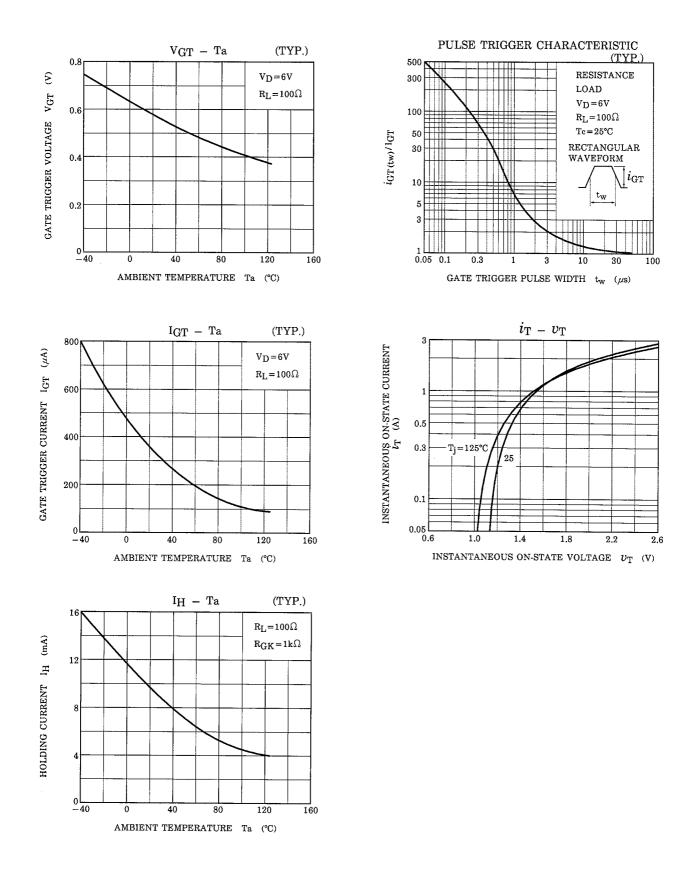
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Repetitive Peak Off-State Current and Peak Reverse Current	I _{DRM}	T_j = 125°C, V _{DRM} = Rated R _{GK} = 1kΩ		100	μA
Peak On-State Voltage	V _{TM}	I _{TM} = 2A		1.8	V
Gate Trigger Voltage	V _{GT}	V _D = 6V, R _I = 100Ω		0.9	V
Gate Trigger Current	I _{GT}	VD - 6V, KL - 10002	_	1.0	mA
Gate Non-Trigger Voltage	V _{GD}	V _D = Rated, Tc = 110°C	0.3	_	V
Turn-On Time	t _{gt}	V_D = Rated, I_{TM} = 4A I_G = 10mA	_	2.0	μs
Turn-Off Time	tq	V_D = 20V, I _P = 1A, R _{GK} = 1k Ω	_	6.0	μs
Critical Rate of Rise of Off-State Voltage	dv / dt	V_D = Rated, R_{GK} = 1k Ω Tc = 110°C, Exponential Rise	15	_	V / µs
Holding Current	Ι _Η	$R_L = 100\Omega, R_{GK} = 1k\Omega$	_	15	mA
Thermal Resistance	R _{th (j−c)}	Junction to Ambient	_	250	°C/W

MARKING



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