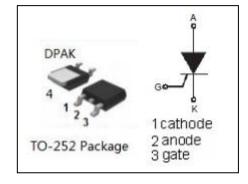


S6012D

APPLICATIONS

- With TO-252 (DPAK)package
- Highly sensitive triggering levels
- For capacitive discharge ignitions, motor control in kitchen aids, overvoltage crowbar protection in low power supplies applications.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT		
Vdrm	Repetitive peak off-state voltage	600	V		
V _{RRM}	Repetitive peak reverse voltage	600	V		
I _{T(RMS)}	RMS on-state current	12	A		
I _{T (AV)}	Average on-state current	7.6	A		
I _{TSM}	Surge non-repetitive on-state current	50HZ	255	A	
115M		60HZ	300		
$I_{T(AV)}$	On-state current 180° conduction angle	7.6	А		
I _{TSM}	Non-repetitive surge peak on-state current t= 2	12	А		
P _{G(AV)}	Average gate power dissipation	0.5	W		
Tj	Junction temperature	125	°C		
T _{stg}	Storage temperature	-40 to + 150	°C		

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SYMBOL	PARAMETER	CONDITIONS		MIN	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	VRM=VRRM, Vdm=Vdrm,	Tj=25℃ Tj=100℃ Tj=125℃		0.01 0.5	mA
I _{DRM}	Repetitive peak off-state current				1	
V _{TM}	On-state voltage				1.6	V
I _{GT}	Gate-trigger current	V _D =12V;RL=60 Ω;			20	mA
V _{GT}	Gate-trigger voltage	V _D =12V;RL=60 Ω;			1.5	V

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

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