

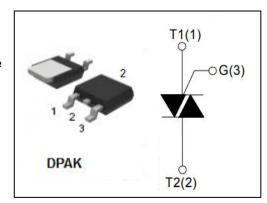
isc Thyristors Q6006DH3

#### **DESCRIPTION**

- With TO-252( DPAK ) uninsulated packaging
- · High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### **APPLICATIONS**

- Switching applications
- Phase control
- Static switching on inductive or resistive load



## ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25℃)

SYMBOL	PARAMETER			UNIT
$V_{DRM}$	Repetitive peak off-state voltage			V
$V_{RRM}$	Repetitive peak reverse voltage			V
I <sub>T(RSM)</sub>	Average on-state current			Α
I <sub>TSM</sub>	Surge non-repetitive on-state current	60HZ 50HZ	65 55	А
$P_{G(AV)}$	Average gate power dissipation			W
Tj	Operating junction temperature			$^{\circ}$
T <sub>stg</sub>	Storage temperature			$^{\circ}\mathbb{C}$

# **ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS		MAX	UNIT	
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>R</sub> =V <sub>RRM</sub> Rated; Tj=25℃		0.01		
I <sub>DRM</sub>	Repetitive peak off-state current	$V_D=V_{DRM}$ Rated;	Tj=100℃ Tj=125℃		0.5 2.0	mA
$V_{TM}$	On-state voltage	I <sub>T</sub> =6A		<u> </u>	1.6	V
	On state voltage	$V_D = 12V; I_T = 0.1A;$ $II$ $III$		-		
I <sub>GT</sub>	Gate-trigger current			l	10	mA
				II	10	
				III	10	
V <sub>GT</sub>	Gate-trigger voltage	V <sub>D</sub> =12V;I <sub>T</sub> =0.1A;		1.3	V	

### **NOTICE:**

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