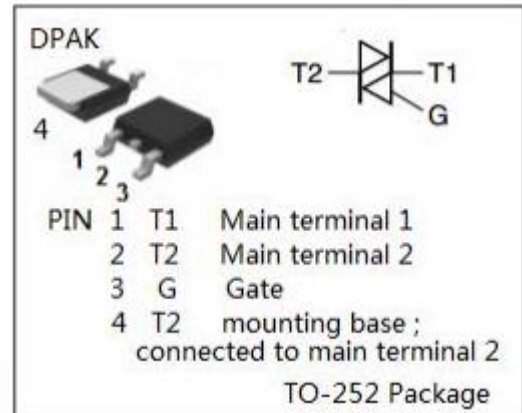


isc Triacs
ISCD1890
FEATURES

- With TO-252 package
- use in applications requiring high bidirectional transient and blocking voltage capability and high thermal cycling performance. Typical applications include motor control, industrial and domestic lighting, heating and static switching.


ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	MIN	UNIT
V_{DRM}	Repetitive peak off-state voltage	600	V
V_{RRM}	Repetitive peak off-state voltage	600	V
$I_{T(RMS)}$	RMS on-state current (full sine wave)	4	A
I_{TSM}	Non-repetitive peak on-state current	25	A
P_{GM}	Peak gate power dissipation	5	W
$P_{G(AV)}$	Average gate power dissipation	0.5	W
T_j	Operating junction temperature	125	°C
T_{stg}	Storage temperature	-45~150	°C

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_R = V_{RRM}$, $V_R = V_{RRM}$, $T_j = 125^\circ\text{C}$		0.005 1	mA
I_{DRM}	Repetitive peak off-state current	$V_D = V_{DRM}$, $V_D = V_{DRM}$, $T_j = 125^\circ\text{C}$		0.005 1	mA
I_{GT}	Gate trigger current	I		5	mA
		II	$V_D = 12\text{V}; R_L = 30\ \Omega$	5	
		III		5	
V_{TM}	On-state voltage	$I_T = 5\text{A}$		1.56	V
I_H	Holding current	$I_{GT} = 0.1\text{A}$		10	mA
V_{GT}	Gate trigger voltage	$V_D = 12\text{V}; R_L = 30\ \Omega$ all quadrant		1.3	V