600V , 15A , Trench-FS IGBT
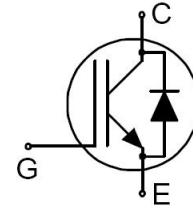
Features

- Advanced Trench+FS (Field Stop) IGBT technology
- Low Collector-Emitter Saturation voltage, typical data is 1.9V @ 15A.
- Easy parallel switching capability due to positive Temperature coefficient in Vce.
- 10uS short-circuit
- Fast switching
- High input impedance
- Pb- Free product

Applications

- General general-purpose inverter
- Motor control
- Intelligent power module.

Schematic Diagram

D2pak

Electrical characteristics(TJ = 25°C unless otherwise noted)							
Symbol	**Parameter**	**Test conditions**	**Units**	**Min.**	**Typ.**	**Max.**
$V_{(BR)CES}$	Collector - Emitter breakdown voltage	$V_{GE} = 0V$, $I_D = 250uA$	V	600	—	—
$V_{CE(sat)}$	Collector-Emitter Saturation voltage	$V_{GE}=15V$, $I_C=15A, T_C=25°C$	V	—	1.9	2.3
		$V_{GE}=15V$, $I_C=15A, T_C=125°C$	V	—	2.2	—
$V_{GE(th)}$	Gate threshold voltage	$V_{GE}= V_{CE}$, $I_c = 0.25mA$	V	4.0	5.2	6.5
Vf	Diode forward voltage	If=15A	V	—	1.9	2.5
I_{GES}	Gate to Emitter Forward Leakage	Vge=+30V	nA	—	—	200
I_{GESR}	Gate to Emitter reverse Leakage	Vge=-30V		-200	—	—
I_{CES}	Zero gate voltage collector current	$V_{CE} =600V$	uA	—	—	25
g_{fs}	Transconductance	Vce=50V, Ic=15A	S	—	16.5	—

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