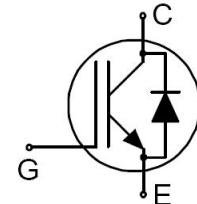


600V , 15A , Trench-FS IGBT**Features**

- 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

**Schematic Diagram****D2pak****Applications**

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

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