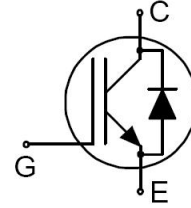


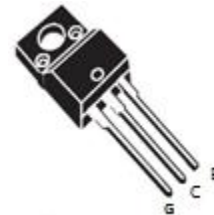
600V , 19A , Trench-FS IGBT

Features

- ◆ Advanced Trench+FS (Field Stop) IGBT technology
- ◆ Low Collector-Emitter Saturation voltage, typical data is 1.7V @ 19A.
- ◆ Easy parallel switching capability due to positive Temperature coefficient in Vce.
- ◆ 10uS short-circuit
- ◆ Fast switching
- ◆ High input impedance
- ◆ Pb- Free product



Schematic Diagram



TO-220F

Applications

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

Electrical characteristics(T_J = 25°C unless otherwise noted)

Symbol	Parameter	Test conditions	Units	Min.	Typ.	Max.
V _{(BR)CES}	Collector - Emitter breakdown voltage	V _{GE} = 0V, I _C =250uA	V	600	—	—
V _{CE(sat)}	Collector-Emitter Saturation voltage	V _{GE} =15V, I _C =19A,T _C =25°C	V	—	1.7	2.0
		V _{GE} =15V, I _C =19A,T _C =125°C	V	—	2.05	—
V _{GE(th)}	Gate threshold voltage	V _{GE} = V _{CE} , I _C = 0.25mA	V	4.0	5.0	6.5
V _f	Diode forward voltage	I _F =19A	V	—	1.6	2.0
I _{GES}	Gate to Emitter Forward Leakage	V _{GE} =+30V	nA	—	—	200
I _{GESR}	Gate to Emitter reverse Leakage	V _{GE} =-30V		-200	—	—
I _{CES}	Zero gate voltage collector current	V _{CE} =600V	uA	—	—	25

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[APT64GA90B2D30](#) [APT70GR120J](#) [NGTB10N60FG](#) [NGTB30N60L2WG](#) [IGP30N60H3XKSA1](#) [STGB15H60DF](#) [STGFW20V60DF](#)
[STGFW30V60DF](#) [STGFW40V60F](#) [STGWA25H120DF2](#) [FGB3236_F085](#) [APT25GN120BG](#) [APT25GR120S](#) [APT30GN60BDQ2G](#)
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[SGB15N120ATMA1](#) [NGTB50N60L2WG](#) [STGB10H60DF](#) [STGB20V60F](#) [STGB40V60F](#) [STGFW80V60F](#) [IGW40N120H3FKSA1](#)
[RJH60D7BDPQ-E0#T2](#) [APT40GR120B](#)