NTE3320
Insulated Gate Bipolar Transistor
N−Channel Enhancement Mode,
High Speed Switch
TO3P Type Package

Features:
- Fourth Generation IGBT
- Enhancement Mode Type
- High Speed
- Low Switching Loss
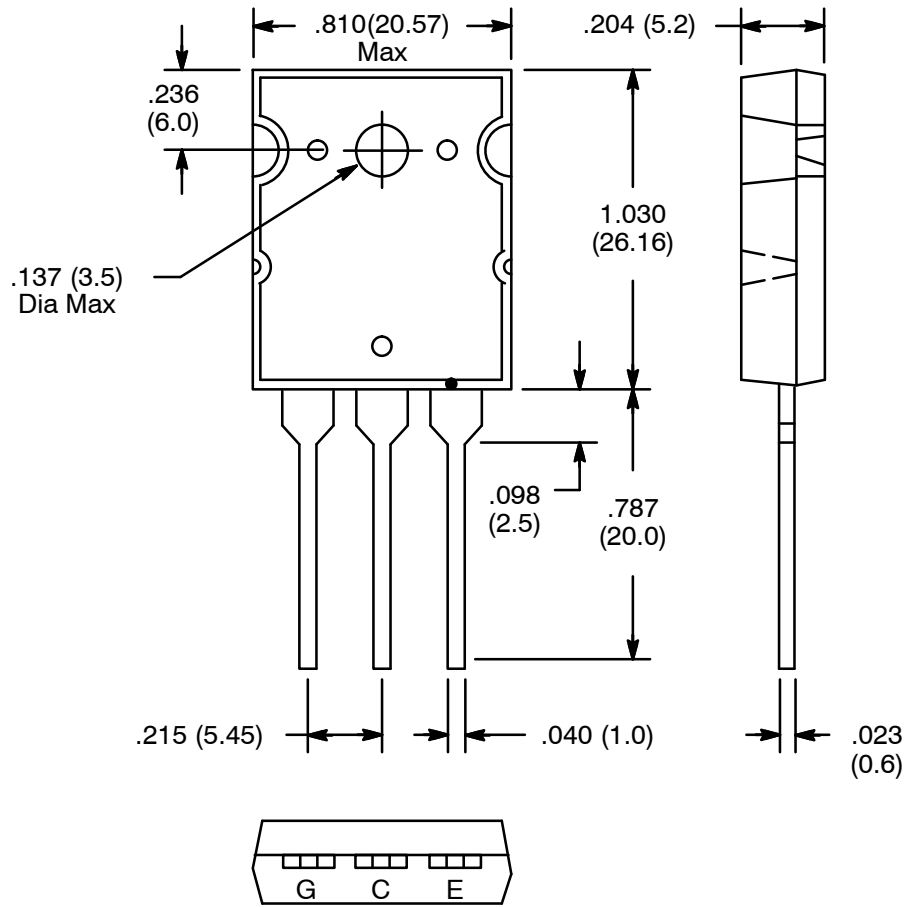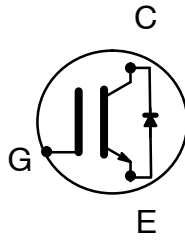- Low Saturation Voltage

Applications:
- High Power Switching

Absolute Maximum Ratings: $(T_A = +25°C$ unless otherwise specified)

Collector−Emitter Voltage, V_{CES} 600V
Gate−Emitter Voltage, V_{GES} . . . . ±20V
Collector Current, I_C
     DC 50A
     Pulse (1ms) 100A
Collector Power Dissipation $(T_C = +25°C)$, P_C 240W
Operating Junction Temperature, T_J . . . . +150°C
Storage Temperature Range, T_{stg} . . . . −55° to +150°C
Thermal Resistance, Junction−to−Case, $R_{th(j−c)}$ . . . . 0.521°C/W
Screw Torque . . . . 0.8N•m

Electrical Characteristics: $(T_A = +25°C$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Gate Leakage Current	I_{GES}	$V_{GE} = ±20V$, $V_{CE} = 0$	–	–	±500	nA
Collector Cutoff Current	I_{CES}	$V_{CE} = 600V$, $V_{GE} = 0$	–	–	1.0	mA
Gate−Emitter Cutoff Voltage	$V_{GE(off)}$	$I_C = 5$ mA, $V_{CE} = 5V$	3.5	–	6.5	V
Collector−Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 50A$, $V_{GE} = 15V$	–	2.0	2.45	V
Input Capacitance	C_{ies}	$V_{CE} = 10V$, $V_{GE} = 0$, $f = 1MHz$	–	7900	–	pF
Turn−On Delay Time	$t_{d(on)}$	Inductive Load	–	0.09	–	μs
Rise Time	t_r	$V_{CC} = 300V$, $I_C = 50$ A,	–	0.07	–	μs
Turn−On Time	t_{on}	$V_{GG} = 15V$, $R_G = 13$ Ω	–	0.24	–	μs
Turn−Off Delay Time	$t_{d(off)}$		–	0.30	–	μs
Fall Time	t_f		–	0.05	–	μs
Turn−Off Time	t_{off}		–	0.43	–	μs
Turn−On Switching Loss	E_{on}		–	1.30	–	mJ
Turn−Off Switching Loss	E_{off}		–	1.34	–	mJ

C

G

E

.810(20.57)
Max

.204 (5.2)

.236
(6.0)

.137 (3.5)
Dia Max

1.030
(26.16)

.098
(2.5)

.787
(20.0)

.215 (5.45)

.040 (1.0)

.023
(0.6)

G   C   E

Note: Collector connected to heat sink.

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