



THE DATASHEET OF TIP35E





ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748-5089

TIP35E

Silicon NPN Transistor

General Purpose Amp, Switch

TO-247 Type Package

Features:

- Collector-Emitter Sustaining Voltage: $V_{CE(sus)} = 140V$ Min
- Current Gain Bandwidth Product: $f_T = 3MHz$ Min @ $I_C = 1A$

Absolute Maximum Ratings:

Collector-Emitter Voltage, V_{CEO}	140V
Collector-Base Voltage, V_{CBO}	180V
Emitter-Base Voltage, V_{EBO}	5V
Continuous Current, I_C	
Continuous	25A
Pulse	40A
Base Current, I_B	5A
Power Dissipation ($T_C = +25^\circ C$), P_D	125W
Derate Above $+25^\circ C$	1.0W/ $^\circ C$
Operating Junction Temperature Range, T_J	-65° to $+150^\circ C$
Storage Temperature Range, T_{stg}	-65° to $+150^\circ C$
Thermal Resistance, Junction-to-Case, R_{thJC}	1.0 $^\circ C/W$

Electrical Characteristics: ($T_C = +25^\circ C$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
OFF Characteristics						
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 30mA$, $I_B = 0$, Note 1	140	–	–	V
Collector Cutoff Current	I_{CEO}	$V_{CE} = 90V$, $I_B = 0$	–	–	1.0	mA
	I_{CES}	$V_{CE} = 180V$, $V_{BE} = 0$	–	–	0.7	mA
Emitter-Base Cutoff Current	I_{EBO}	$V_{EB} = 5V$, $I_C = 0$	–	–	1.0	mA
ON Characteristics (Note 1)						
DC Current Gain	h_{FE}	$V_{CE} = 4V$, $I_C = 1.5A$	25	–	–	
		$V_{CE} = 4V$, $I_C = 15A$	8	–	–	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 15A$, $I_B = 3A$	–	–	2.5	V
		$I_C = 25A$, $I_B = 6.25A$	–	–	5.0	V
Base-Emitter ON Voltage	$V_{BE(on)}$	$V_{CE} = 4V$, $I_C = 15A$	–	–	2.0	V
		$V_{CE} = 4V$, $I_C = 25A$	–	–	4.0	V

Note 1. Pulsed: Pulse Duration $\leq 300\mu s$, Duty Cycle $\leq 2\%$.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 View [TIP35E](#) on WIN SOURCE

 [NTE](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management