



ELECTRONICS, INC.  
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## NTE2680

### Silicon NPN Transistor

### Power, High Speed Switch w/Internal Damper Diode

### TO3P(H)IS Type Package

**Features:**

- Collector–Emitter Sustaining Voltage:  $V_{CEO(SUS)} = 800V$  Min.
- High Switching Speed
- Built–in Damper Diode

**Applications:**

- Horizontal Deflection Output for Color TV Receiver

**Absolute Maximum Ratings:** ( $T_A = +25^\circ C$  unless otherwise specified)

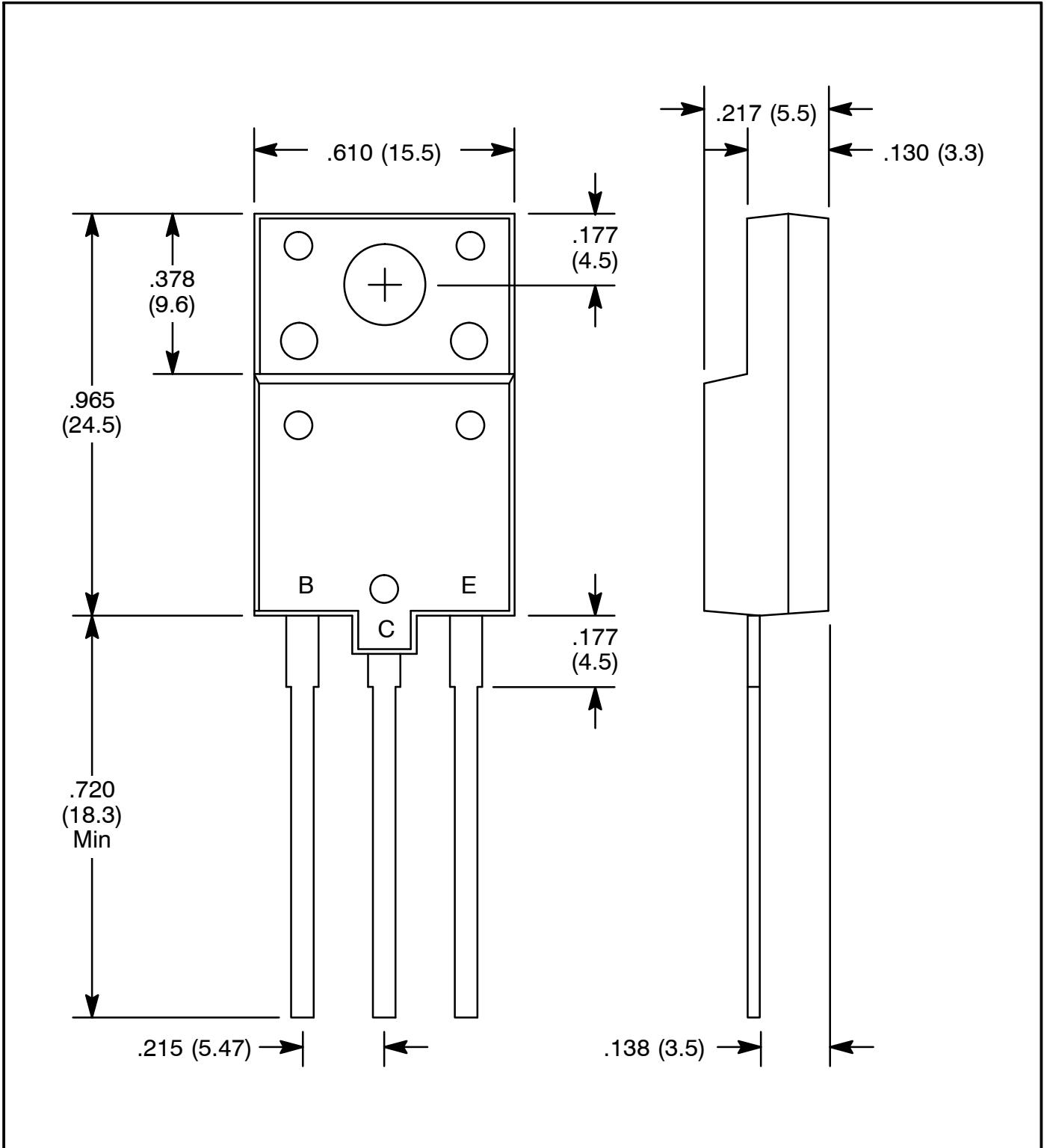
Collector–Emitter Voltage ( $V_{BE} = 0$ ), $V_{CES}$ .....	1500V
Collector–Emitter Voltage, $V_{CEO}$ .....	800V
Emitter–Base Voltage, $V_{EBO}$ .....	8V
Collector Current, $I_C$	
Continuous .....	8A
Peak .....	15A
Base Current, $I_B$	
Continuous .....	4A
Peak .....	6A
Collector Power Dissipation ( $T_C = +25^\circ C$ ), $P_C$ .....	45W
Operating Junction Temperature, $T_J$ .....	+150°C
Storage Temperature Range, $T_{stg}$ .....	–65° to +150°C
Thermal Resistance, Junction–to–Case, $R_{thJC}$ .....	2.8°C/W

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector–Emitter Sustaining Voltage	$V_{CEO(SUS)}$	$I_C = 100mA, I_B = 0, L = 25mH$	800	–	–	V
Emitter–Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 300mA, I_C = 0$	8	–	–	V
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 5A, I_B = 1.25A$	–	–	3.0	V
Base–Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 5A, I_B = 1.25A$	–	–	1.03	V
Collector Cutoff Current	$I_{CES}$	$V_{CE} = 1500V,$ $V_{BE} = 0$	–	–	1.0	mA
		$T_C = +125^\circ C$	–	–	2.0	mA

**Electrical Characteristics (Cont'd):** ( $T_C = +25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
DC Current Gain	$h_{FE}$	$V_{CE} = 5V$	$I_C = 500\text{mA}$	7.0	-	-	
			$I_C = 5A$	4.2	-	-	
Diode Forward Voltage	$V_{ECF}$	$I_F = 5A$		-	-	2.2	V
Storage Time	$t_{stg}$	$I_C = 5A, I_{B1} = 1A, I_{B2} = -2.5A$		-	-	3.75	$\mu\text{s}$
Fall Time	$t_f$			-	-	0.4	$\mu\text{s}$



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