

# isc Silicon NPN Power Transistor

## 2SC940

### DESCRIPTION

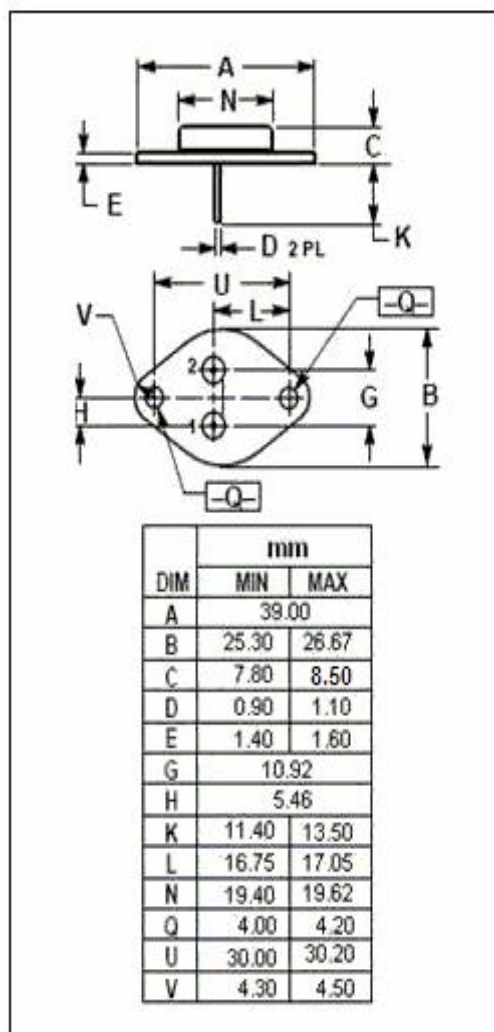
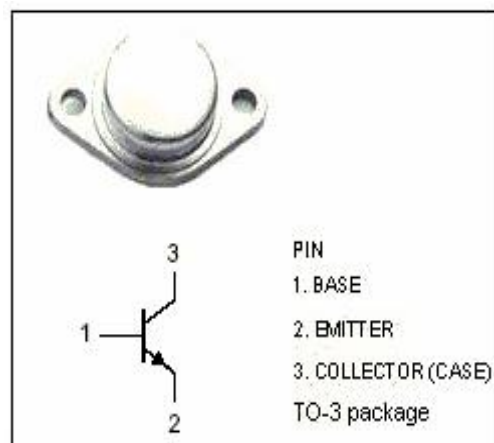
- High Breakdown Voltage-  
:  $V_{CE0} = 90V(\text{Min})$
- Wide Safe Operating Area
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### APPLICATIONS

- Designed for B/W TV horizontal deflection output applications.
- Suitable for horizontal output applications in 12~24 inch B/W TV, and switching applications of 5A class.

### ABSOLUTE MAXIMUM RATINGS( $T_a = 25^\circ\text{C}$ )

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	200	V
$V_{CES}$	Collector-Emitter Voltage	200	V
$V_{CEO}$	Collector-Emitter Voltage	90	V
$V_{EBO}$	Emitter-Base Voltage	7	V
$I_C$	Collector Current- Continuous	7.5	A
$I_{CP}$	Collector Current-Pulse	15	A
$P_C$	Collector Power Dissipation @ $T_C = 25^\circ\text{C}$	50	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-65~150	$^\circ\text{C}$



**isc Silicon NPN Power Transistor****2SC940****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=5\text{A}; I_B=0.5\text{A}$			1.5	V
$I_{CBO}$	Collector Cutoff Current	$V_{CB}=90\text{V}; I_E=0$			2.0	mA
$h_{FE}$	DC Current Gain	$I_C=5\text{A}; V_{CE}=5\text{V}$	15		70	
$t_f$	Fall Time	$I_C=5\text{A}, I_{B1}=0.6\text{A}$			1.0	$\mu\text{s}$

**◆  $h_{FE}$  Classifications**

R	Q	P
15-35	25-45	35-70

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