

## isc Silicon NPN Power Transistor

2SC2793

## DESCRIPTION

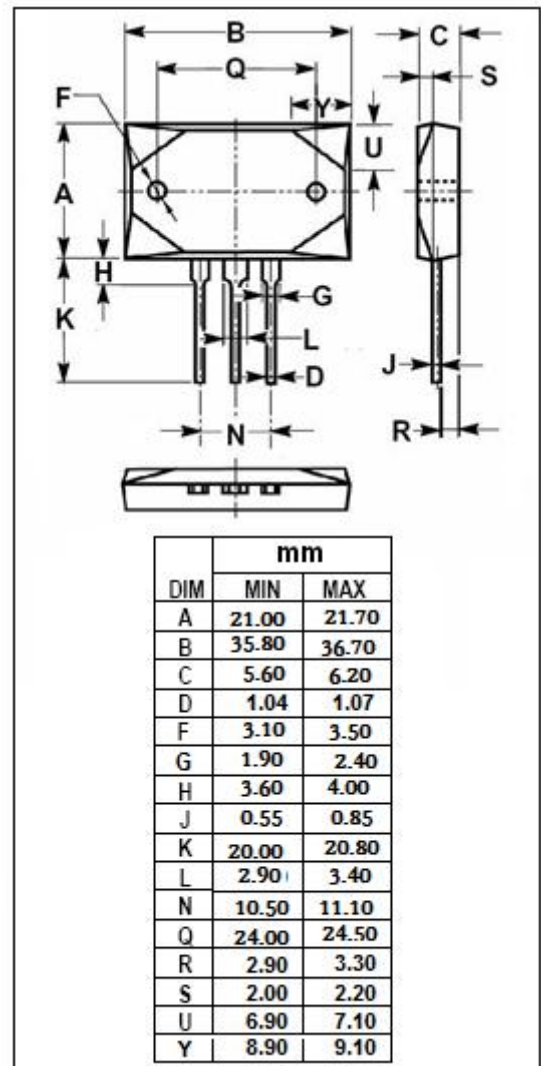
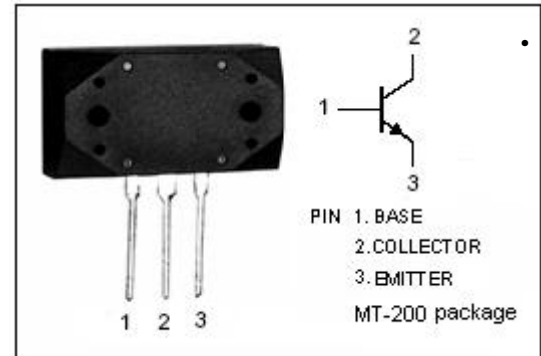
- With MT-200 package
- High power dissipation
- High current capability
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

## APPLICATIONS

- High speed and high voltage switching applications
- Switching regulator applications
- High speed DC-DC converter applications

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	900	V
$V_{CEO}$	Collector-Emitter Voltage	800	V
$V_{EBO}$	Emitter-Base Voltage	7	V
$I_C$	Collector Current-Continuous	5	A
$I_B$	Base Current-Continuous	3	A
$P_C$	Collector Power Dissipation @ $T_C=25^{\circ}\text{C}$	100	W
$T_J$	Junction Temperature	150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^{\circ}\text{C}$



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## CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=10mA$ ; $I_B=0$	800			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=1mA$ ; $I_C=0$	7			V
$V_{CEsat}$	Collector-emitter saturation voltage	$I_C=3A$ ; $I_B=0.6A$			1.0	V
$V_{BEsat}$	Base-emitter saturation voltage	$I_C=3A$ ; $I_B=0.6A$			1.5	V
$I_{CBO}$	Collector cut-off current	$V_{CB}=900V$ ; $I_E=0$			100	$\mu A$
$I_{EBO}$	Emitter cut-off current	$V_{EB}=7V$ ; $I_C=0$			100	$\mu A$
$h_{FE-1}$	DC current gain	$I_C=10mA$ ; $V_{CE}=5V$	10			
$h_{FE-2}$	DC current gain	$I_C=3A$ ; $V_{CE}=5V$	10			

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