

isc Silicon NPN Power Transistor

2SD632

DESCRIPTION

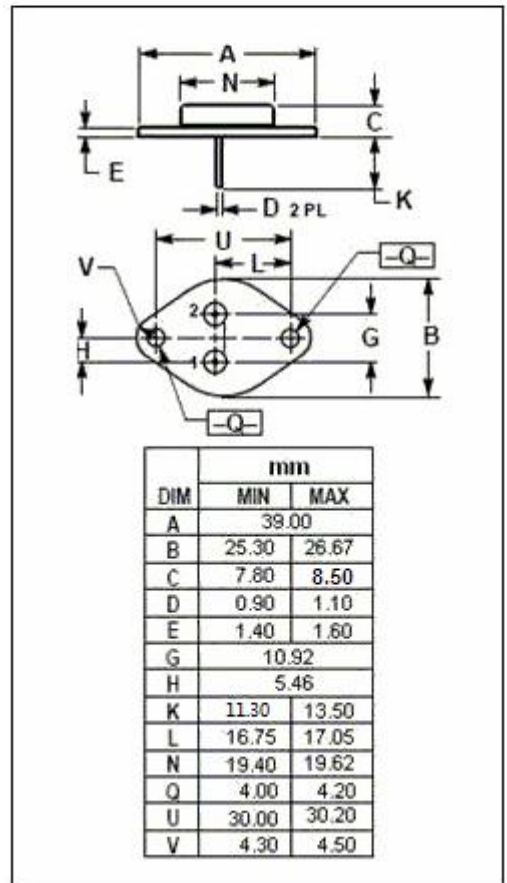
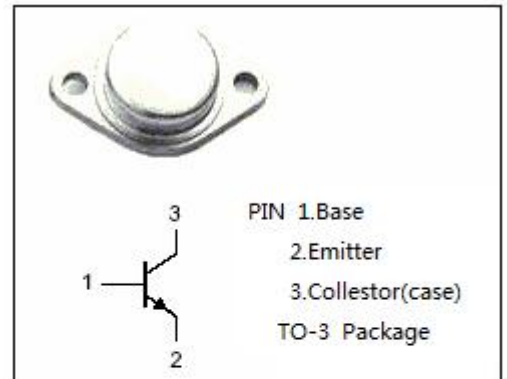
- Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)} = 300V(\text{Min})$
- Excellent Safe Operating Area
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for line operated audio output amplifier, and switching power supply drivers applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	350	V
V_{CEO}	Collector-Emitter Voltage	300	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	2.5	A
I_{CM}	Collector Current-Peak	5	A
P_C	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	80	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor**2SD632****ELECTRICAL CHARACTERISTICS** $T_C=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	$I_C=30\text{mA}; I_B=0$	300		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=2.0\text{A}; I_B=0.4\text{A}$		1.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	$I_C=2.0\text{A}; V_{CE}=10\text{V}$		1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=350\text{V}; I_E=0$		0.1	mA
I_{CEO}	Collector Cutoff Current	$V_{CE}=300\text{V}; I_B=0$		0.5	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=5\text{V}; I_C=0$		0.1	mA
h_{FE-1}	DC Current Gain	$I_C=0.5\text{A}; V_{CE}=10\text{V}$	30	150	
h_{FE-2}	DC Current Gain	$I_C=2\text{A}; V_{CE}=10\text{V}$	10		
f_T	Current-Gain—Bandwidth Product	$I_C=0.5\text{A}; V_{CE}=10\text{V}$	2.5		MHz

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