

isc Silicon NPN Power Transistor
2SC2975
DESCRIPTION

- With TO-66 Package
- Low collector saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

APPLICATIONS

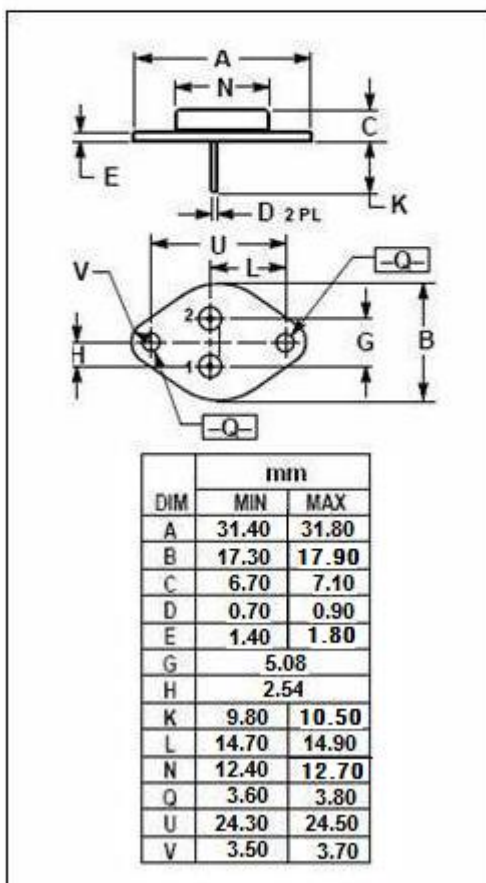
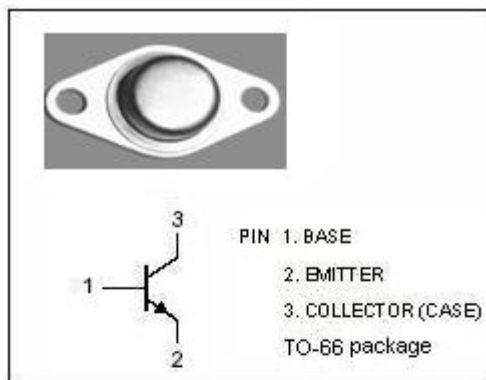
- Designed for switching and wide-band amplifier applications

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CB0}	Collector-Base Voltage	800	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EB0}	Emitter-Base Voltage	7	V
I _c	Collector Current-Continuous	5	A
P _c	Collector Power Dissipation @ T _c =25°C	40	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.125	°C/W



isc Silicon NPN Power Transistor**2SC2975****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C= 2A; I_B= 0.3A$		1.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C= 2A; I_B= 0.3A$		1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=800V; I_B= 0$		100	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB}= 7V; I_C=0$		100	μA
h_{FE}	DC Current Gain	$I_C= 2A; V_{CE}= 5V$	10	35	

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.