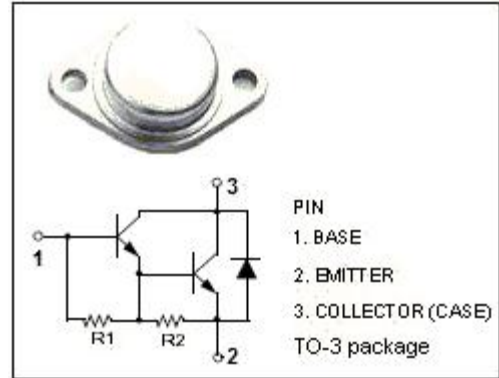


isc Silicon NPN Darlington Power Transistor
2N6282
DESCRIPTION

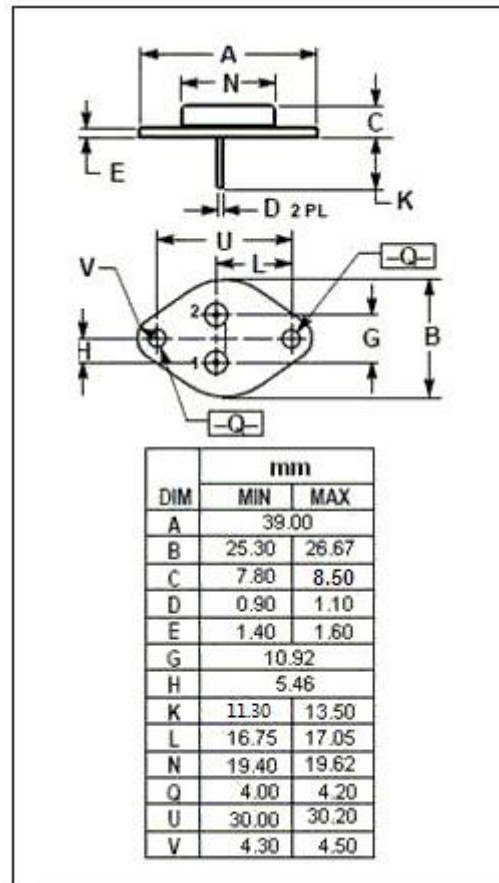
- Built-in Base-Emitter Shunt Resistors
- High DC current gain-
 $h_{FE} = 750$ (Min) @ $I_c = 10$ A dc
- Collector-Emitter Sustaining Voltage-
 $V_{CEO(SUS)} = 60V$ (Min)
- Complement to type 2N6285

APPLICATIONS

- Intended for general purpose amplifier and low frequency switching applications, such as linear and switching industrial equipment.


ABSOLUTE MAXIMUM RATINGS($T_c=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I_c	Collector Current -Continuous	20	A
I_{CP}	Collector Current-Peak	40	A
I_B	Base Current	0.5	A
P_c	Collector Power Dissipation@ $T_c=25^\circ C$	160	W
T_j	Junction Temperature	-65~200	$^\circ C$
T_{stg}	Storage Temperature	-65~200	$^\circ C$


THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	ThermalResistance, Junction to Case	1.09	$^\circ C/W$

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2N6282

ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CE0(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ; I _B = 0	60		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 40mA		2.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 20A; I _B = 200mA		3.0	V
V _{BE(sat)}	Base-Emitter Saturation voltage	I _C = 20A; I _B = 200mA		4.0	V
V _{BE(on)}	Base-Emitter On voltage	I _C = 10A; V _{CE} = 3V		2.8	V
I _{CEO}	Collector Cutoff current	V _{CE} = 30V; I _B =0		1.0	mA
I _{EBO}	Emitter Cut-off current	V _{EB} = 5V; I _C = 0		2.0	mA
h _{FE-1}	DC Current Gain	I _C = 10A; V _{CE} = 3V	750	18000	
h _{FE-2}	DC Current Gain	I _C = 20A; V _{CE} = 3V	100		

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