

isc Silicon PNP Power Transistor

2N6212

DESCRIPTION

- With TO-3 packaging
- Very high DC current gain
- Monolithic darlington transistor with integrated antiparallel collector-emitter diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

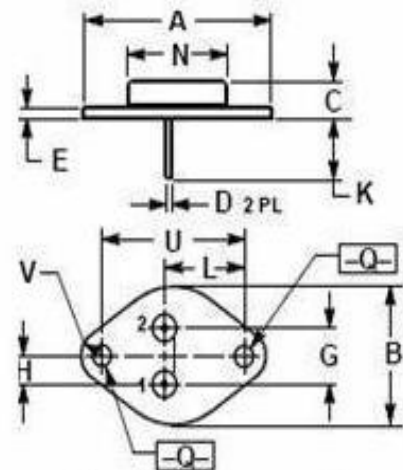
- Electronic ignition
- Alternator regulator
- Motor controls

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	-6	V
I_C	Collector Current-Continuous	-2	A
I_{CM}	Collector Current-Peak	-5	A
I_B	Collector Current-Continuous	-1	A
P_C	Collector Power Dissipation @ $T_c=25^{\circ}\text{C}$	35	W
T_J	Junction Temperature	200	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-65~200	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	5.0	$^{\circ}\text{C/W}$



DIM	mm	
	MIN	MAX
A	31.40	31.80
B	17.30	17.90
C	6.70	7.10
D	0.70	0.90
E	1.40	1.80
G	5.08	
H	2.54	
K	9.80	10.50
L	14.70	14.90
N	12.40	12.70
Q	3.60	3.80
U	24.30	24.50
V	3.50	3.70

isc Silicon PNP Power Transistor**2N6212****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -200mA ; I _B = 0	-300			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -0.5mA ; I _C = 0	-6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A ; I _B = -125mA			-1.4	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -1A ; I _B = -125mA			-1.4	V
I _{CEV}	Collector Cutoff Current	V _{CE} = -315V ; V _{BE(off)} = -1.5V			-0.5	mA
I _{CEO}	Collector Cutoff Current	V _{CE} = -150V ; I _B = 0			-5.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V ; I _C = 0			-0.5	mA
h _{FE-1}	DC Current Gain	I _C = -1A ; V _{CE} = -2.8V	10		100	
h _{FE-2}	DC Current Gain	I _C = -1A ; V _{CE} = -3.2V	10		100	
h _{FE-3}	DC Current Gain	I _C = -1A ; V _{CE} = -4.0V	10		100	

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