

isc Silicon PNP Power Transistor
2SA1012
DESCRIPTION

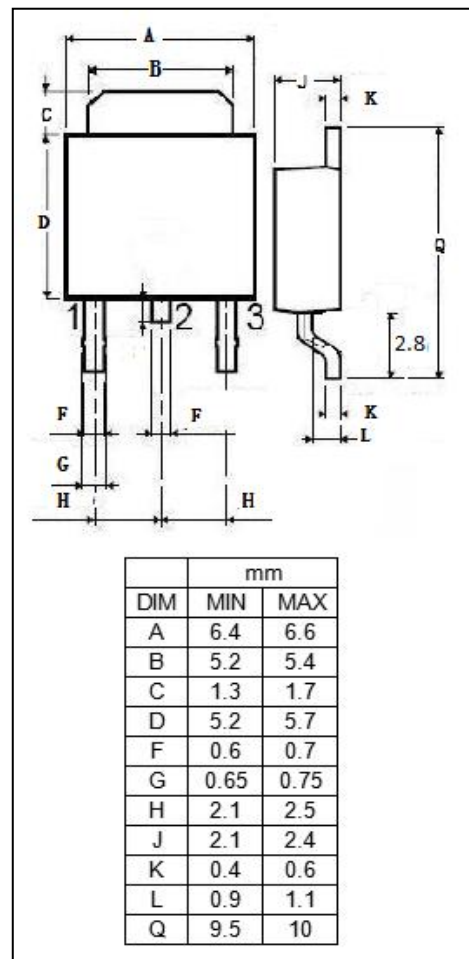
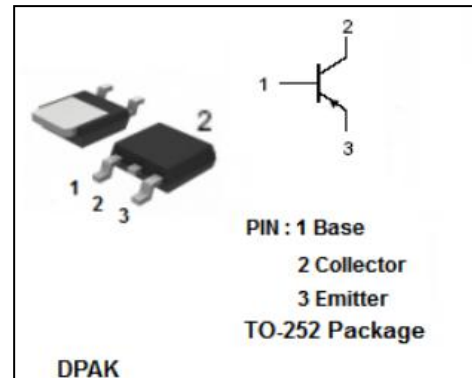
- Low Collector Saturation Voltage
: $V_{CE(sat)} = -0.4(V)(Max) @ I_C = -3A$
- High Switching Speed
- Complement to Type 2SC2562
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for high current switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-5	A
P_C	Total Power Dissipation @ $T_C = 25^\circ C$	20	W
T_J	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature Range	-55~150	$^\circ C$



isc Silicon PNP Power Transistor**2SA1012****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 = -10mA ; I _B = 0	-50			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.15A			-0.4	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -3A; I _B = -0.15A			-1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -50V ; I _E = 0			-1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-1	μ A
h _{FE-1}	DC Current Gain	I _C = -1A ; V _{CE} = -1V	70		240	
h _{FE-2}	DC Current Gain	I _C = -3A ; V _{CE} = -1V	30			

◆ **h_{FE-1} Classifications**

O	Y
70-140	120-240

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