

isc Silicon PNP Power Transistor

2SA1328

DESCRIPTION

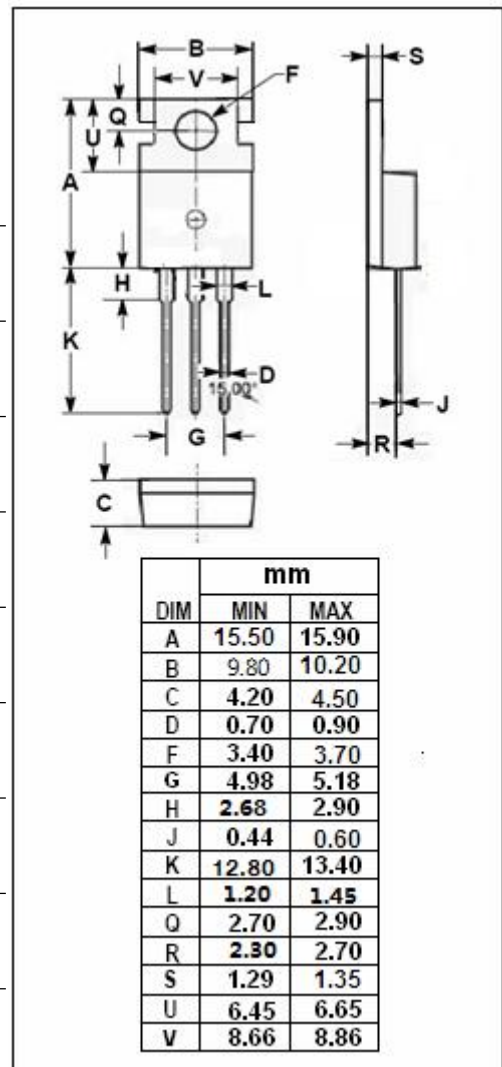
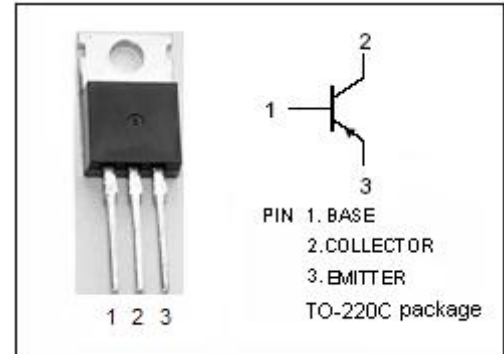
- Low Collector Saturation Voltage
: $V_{CE(sat)} = -0.4(V)(Max) @ I_C = -6A$
- High Switching Speed
- Complement to Type 2SC3345
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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	-6	V
I_C	Collector Current-Continuous	-12	A
I_B	Base Current-Continuous	-2	A
P_C	Total Power Dissipation @ $T_C=25^{\circ}C$	40	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}C$



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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 = -50mA ; I _B = 0	-50			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -6A; I _B = -0.3A			-0.4	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -6A; I _B = -0.3A			-1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -60V ; I _E = 0			-10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-10	μ A
h _{FE-1}	DC Current Gain	I _C = -1A ; V _{CE} = -1V	70		240	
h _{FE-2}	DC Current Gain	I _C = -6A ; V _{CE} = -1V	40			
f _T	Current-Gain—Bandwidth Product	I _C = -1A ; V _{CE} = -5V		70		MHz
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -10V; f _{test} = 1MHz		320		pF

Switching Times

t _{on}	Turn-on Time	I _C = -6A , R _L = 5 Ω , I _{B1} = -I _{B2} = -0.3A, V _{CC} = -30V		0.3		μ s
t _{stg}	Storage Time			1.0		μ s
t _f	Fall Time			0.5		μ s

◆ h_{FE-1} Classifications

O	Y
70-140	120-240

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