

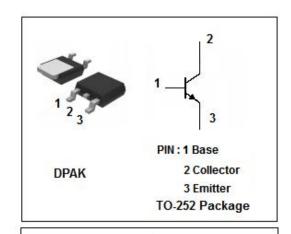
isc Silicon NPN Power Transistor

DESCRIPTION

- · Low collector saturation voltage
- · High DC current gain
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

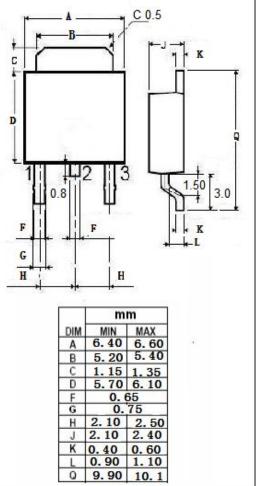
 This transistor is ideal for audio frequency amplifier and switching especially in hybrid integrated circuits



ABSOLU [*]	TE MAXIMUM	RATINGS(T _a =25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	60	٧
V _{CEO}	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	7	V
lc	Collector Current-Continuous	5	Α
Ісм	Collector Current-Peak NOTE1	7	А
Pc	Collector Power Dissipation @T _a =25 °C NOTE2	2	W
Тл	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	°C

NOTE1:PW≤300ms,Duty cycle ≤10% NOTE2:Printing boarding mounted





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2SC3518-Z

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)} NOTE	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 200mA			0.3	V
V _{BE(sat)} NOTE	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 200mA			1.2	V
Ісво	Collector Cutoff Current	V _{CB} = 50V; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μА
h _{FE-1} NOTE	DC Current Gain	I _C = 5A; V _{CE} = 1V	50			
h _{FE-2} NOTE	DC Current Gain	I _C = 2A; V _{CE} = 1V	100		400	
f _T NOTE	Current-Gain—Bandwidth Product	Ic= 500mA; VcE= 10V		120		MHz

NOTE:Pulse test PW≤350us,duty cycle ≤2%/pulse

♦ h_{FE-2} Classifications

M	L	K		
100-200	160-320	200-400		

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