

isc Silicon NPN Power Transistor

2SD60

DESCRIPTION

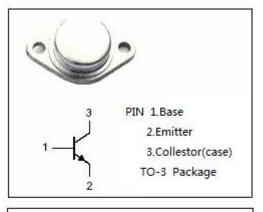
- Collector-Emitter Sustaining Voltage-: V_{CEO(SUS)} = 75V(Min)
- Excellent Safe Operating Area
- High Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

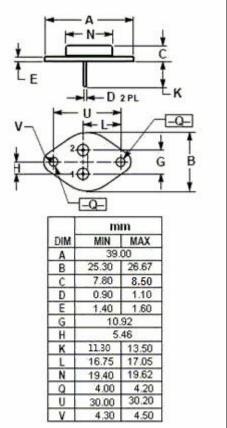
APPLICATIONS

• Designed for power amplifier and switching applications.

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	150	V	
V _{CEO}	Collector-Emitter Voltage	75	V	
V_{EBO}	Emitter-Base Voltage	6	V	
lc	Collector Current-Continuous	6	А	
Ісм	Collector Current-Peak	10	А	
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$	50	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-65~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)







isc Silicon NPN Power Transistor

2SD60

ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= 10mA; R _{BE} = ∞	75			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ι _C = 5Α; Ι _B = 0.5Α			1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A; V _{CE} = 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} =150V; I _E =0			0.1	mA
I _{EBO}	Emitter Cutoff current	V _{EB} =6V; I _C =0			0.1	mA
h _{FE-1}	DC Current Gain	I _C = 1A ; V _{CE} = 4V	60		200	
h _{FE-2}	DC Current Gain	I _C = 3A ; V _{CE} = 4V	30			
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5 A;V _{CE} = 10V;f _{test} = 1MHz		7		MHz

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

isc website: www.iscsemi.com