

isc Silicon NPN Darlington Power Transistor

2SD1286

DESCRIPTION

- With TO-251(IPAK) packaging
- Very high DC current gain
- Monolithic darlington transistor with integrated antiparallel collector-emitter diode
- Complement to type 2SB963
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

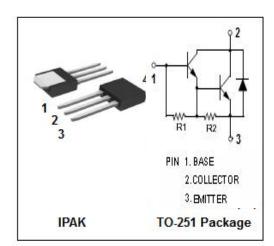
- AC-DC motor control
- Electronic ignition
- · Alternator regulator

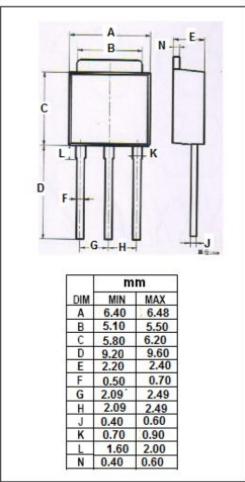
ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage 60		V
V _{EBO}	Emitter-Base Voltage 8		V
Ic	Collector Current-Continuous		Α
I _{CM}	Collector Current-Peak	2	Α
P _T	Total Power Dissipation 10		W
Tj	Max.Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-a}	Thermal Resistance,Junction to Ambient	62.5	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 1mA, I _B = 0	60		V
VCE(sat)	Collector-Emitter Saturation Voltage	I _C =0.5A ,I _B = 50mA		1.5	V
V _{BE(sat)1}	Base-Emitter Saturation Voltage	I _C =0.5A ,I _B = 50mA		2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} =60V, I _E = 0		10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		10	μА
h _{FE-1}	DC Current Gain	I _C = 0.2A; V _{CE} = 2V	1000	-	
h _{FE-2}	DC Current Gain	I _C = 0.5A; V _{CE} = 2V	6000	30000	



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