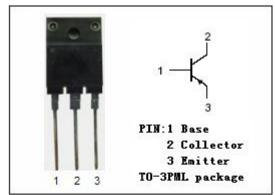




isc Silicon PNP Power Transistor

DESCRIPTION

- Low Collector Saturation Voltage
 :V_{CE(sat)}= -0.5(V)(Max)@I_C= -6A
- Good Linearity of hFE
- · Wide Area of Safe Operation
- · Complement to Type 2SD2281
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



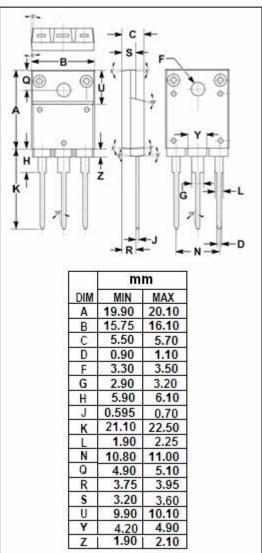


APPLICATIONS

• Designed for relay drivers, high-speed inverters, converters.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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	
Ic	Collector Current-Continuous -12		А	
Ісм	Collector Current-Peak -25		А	
P _C	Collector Power Dissipation @ T _a =25℃	3	W	
	Collector Power Dissipation @ T _C =25°C	45		
Тл	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$ C	





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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA; R _{BE} = ∞	-50			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = -1m A; I _E = 0	-60			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I _E = -1m A; I _C = 0	-6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -6A; I _B = -0.3A			-0.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -40V; I _E = 0			-100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-100	μA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -2V	70		280	
h _{FE-2}	DC Current Gain	I _C = -5A; V _{CE} = -2V	30			
f⊤	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -5V		10		MHz
Switching Times						

ton	Turn-on Time		0.2	μS
t _{stg}	Storage Time	I_{C} = -5A; R_{L} = 4 Ω , I_{B1} = - I_{B2} = -0.5A, V_{CC} = -20V	0.4	μς
t _f	Fall Time		0.1	μς

♦ h_{FE-1} Classifications

Q	R	S
70-140	100-200	140-280



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