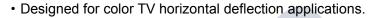


ISC Silicon NPN Power Transistor

DESCRIPTION

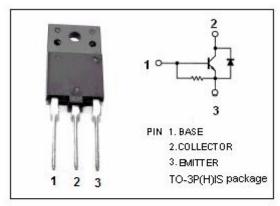
- · High Breakdown Voltage-
 - : V_{CBO}= 1700V (Min)
- · High Switching Speed
- Low Saturation Voltage
- · Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

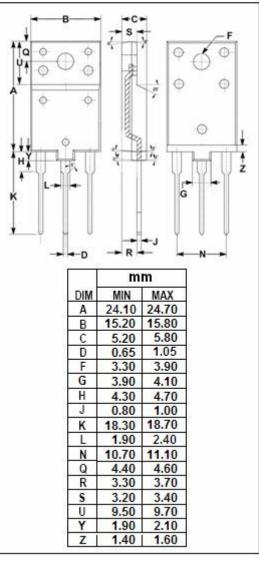
APPLICATIONS



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
Vсво	Collector-Base Voltage	1700	V	
V _{CEO}	Collector-Emitter Voltage	600	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current- Continuous	octor Current- Continuous 4		
Ісм	Collector Current- Pulse	8	Α	
I _B	Base Current- Continuous	2	Α	
Pc	Collector Power Dissipation @ T _C =25°C	50	W	
Тл	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







isc Silicon NPN Power Transistor

2SD2550

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 200mA; I _C = 0	5			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.8A			8.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.8A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 1700V; I _E = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0	66		200	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8		22	
V _{ECF}	C-E Diode Forward Voltage	I _F = 4A			2.0	V
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V		3		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} =1.0MHz		85		pF

Notice:

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