

ISC Silicon NPN Power Transistor

2SC5250

DESCRIPTION

- Silicon NPN diffused planar transistor
- · High speed switching
- Built-in damper diode type
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

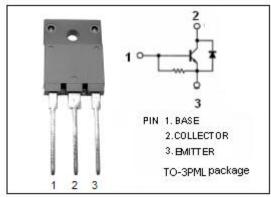


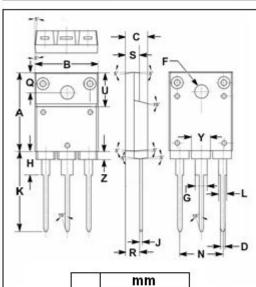
APPLICATIONS

 Designed for display horizontal deflection output Switching regulator and general purpose

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1500	V	
Vceo	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	8	А	
lв	Base Current-Continuous	3	А	
Pc	Collector Power Dissipation @ T _C =25℃	50	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	





	mm			
DIM	MIN	MAX		
Α	19.90	20.10		
В	15.90	16.10		
С	5.50	5.70		
D	0.90	1.10		
F	3.30	3.50		
G	2.90	3.10		
Н	5.90	6.10		
J	0.595	0.605		
K	22.30	22.50		
L	1.90	2.10		
N	10.80	11.00		
0	4.90	5.10		
R	3.75	3.95		
S	3.20	3.40		
U	9.90	10.10		
Υ	4.70	4.90		
Z	1.90	2.10		



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C =30mA; I _B = 0	800			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E =400mA; I _C = 0	6			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =5A; I _B = 1.25A			5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =5A; I _B = 1.25A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 1500V; I _E = 0			100	μ A
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	6		25	
h _{FE-2}	DC Current Gain	I _C = 5A; V _{CE} = 5V	4		7	

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