

isc Silicon NPN Power Transistor

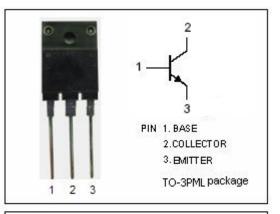
2SD1941

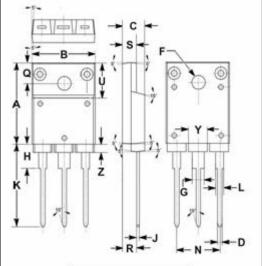
DESCRIPTION

- High Breakdown Voltage-
- : V_{СВО}= 1500V (Min)
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Designed for CTV/character display horizontal deflection
output stage applications





	m	mm	
DIM	MIN	MAX	
Α	19.90	20.10	
В	15.75	16.10	
С	5.50	5.70	
D	0.90	1.10	
F	3.30	3.50	
G	2.90	3.20	
Н	5.90	6.10	
J	0.595	0.70	
Κ	21.10	22.50	
L	1.90	2.25	
N	10.80	11.00	
0	4.90	5.10	
R	3.75	3.95	
S	3.20	3.60	
U	9.90	10.10	
Y	4.20	4.90	
Z	1.90	2.10	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1500	V	
V _{CEO}	Collector-Emitter Voltage	650	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current- Continuous	6	A	
$I_{C(peak)}$	Collector Current- Peak	7	А	
I _{C(surge)}	Collector Current-Surge	16	А	
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$	50	W	
TJ	Junction Temperature	150	°C	
T _{stg}	tg Storage Temperature Range		°C	

isc website: www.iscsemi.com

¹ *isc & iscsemi* is registered trademark



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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I_{C} = 10mA; R_{BE} = ∞	600			v
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			v
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			5.0	v
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.5	v
Ices	Collector Cutoff Current	V _{CE} = 1200V; R _{BE} = 0			100	μA
h _{FE}	DC Current Gain	I _C = 0.3A; V _{CE} = 5V	5			

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