

**isc Silicon NPN Power Transistor****2SD849****DESCRIPTION**

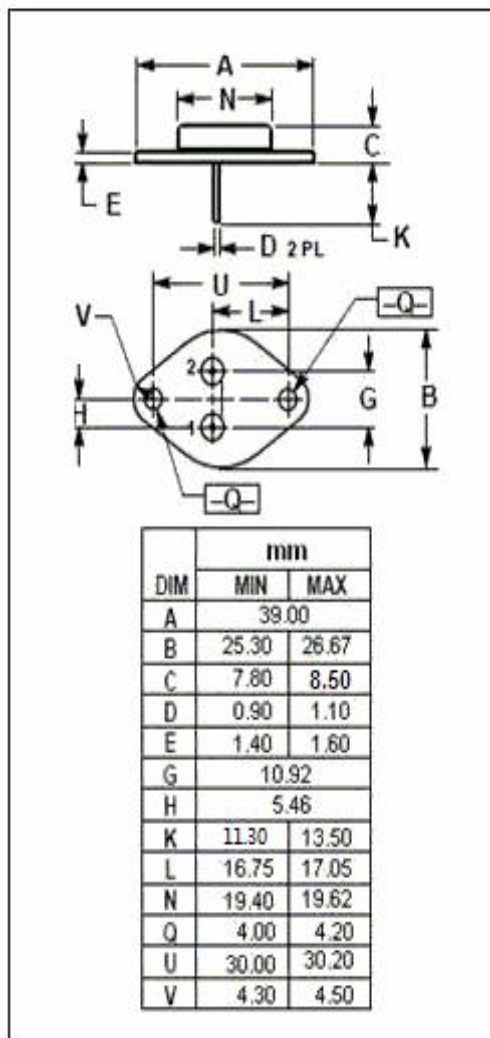
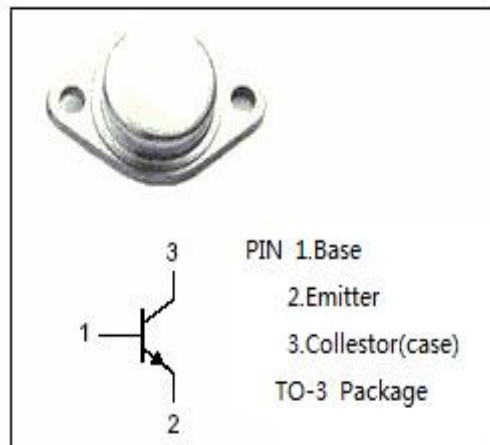
- High Breakdown Voltage-  
:  $V_{CBO} = 1500V$  (Min)
- Low Collector Saturation Voltage-  
:  $V_{CE(sat)} = 5.0V$  (Max.) @  $I_C = 3A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Designed for line-operated horizontal deflection output applications.

**ABSOLUTE MAXIMUM RATINGS( $T_a = 25^\circ C$ )**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	1500	V
$V_{CEO}$	Collector-Emitter Voltage	600	V
$V_{EBO}$	Emitter-Base Voltage	5	V
$I_C$	Collector Current-Continuous	3	A
$I_{CM}$	Collector Current-Peak	5	A
$P_C$	Collector Power Dissipation @ $T_c \leq 90^\circ C$	25	W
$T_J$	Junction Temperature	130	$^\circ C$
$T_{stg}$	Storage Temperature Range	-65~130	$^\circ C$



**isc Silicon NPN Power Transistor****2SD849****ELECTRICAL CHARACTERISTICS****T<sub>c</sub>=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = 1mA; I <sub>C</sub> = 0	5			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 3A; I <sub>B</sub> = 1A			5.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 3A; I <sub>B</sub> = 1A			1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 750V; I <sub>E</sub> = 0			100	μ A
		V <sub>CB</sub> = 1500V; I <sub>E</sub> = 0			1	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 3A; V <sub>CE</sub> = 10V	4		12	
t <sub>f</sub>	Fall Time	I <sub>C</sub> = 3A, I <sub>Bend</sub> = 1A; L <sub>B</sub> = 20 μ H			0.9	μ s
t <sub>stg</sub>	Storage Time			13		μ s

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