

# **isc** Silicon NPN Darlington Power Transistor

# **STD901T**

C (2)

E (3)

pin 1.Base

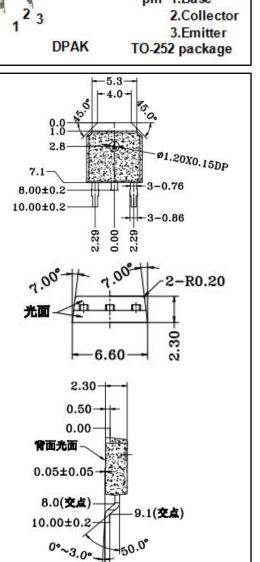
## DESCRIPTION

- Collector-Emitter Sustaining Voltage : V<sub>CEO(SUS)</sub> = 350V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### **APPLICATIONS**

High ruggedness electronic ignitino for small engines





0.50

### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth j-c	Thermal Resistance, Junction to Case	3.57	°C/W

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isc website: <u>www.iscsemi.com</u>



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## **ELECTRICAL CHARACTERISTICS**

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V <sub>CEO(SUS)</sub>	Collector-Emitter Sustaining Voltage	I <sub>C</sub> = 10mA; I <sub>B</sub> = 0	350			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> =2A; I <sub>B</sub> = 20mA			1.3	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> =2A; I <sub>B</sub> = 20mA			1.8	V
Ісво	Collector Cutoff Current	V <sub>CB</sub> =500V; I <sub>E</sub> = 0 V <sub>CB</sub> = 500V; I <sub>E</sub> = 0;Tj= 125℃			0.1 0.5	mA
I <sub>CEO</sub>	Collector Cutoff Current	V <sub>CB</sub> =350V; I <sub>E</sub> = 0 V <sub>CB</sub> =350V; I <sub>E</sub> = 0;T <sub>j</sub> = 125°C			0.1 0.5	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> = 0			1	mA
h <sub>FE</sub>	DC Current Gain	Ic= 2A; Vc== 2V Ic= 4A; Vc== 2V	1500 500			

### **NOTICE:**

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