

**isc Silicon NPN Power Transistor**
**2SC4927**
**DESCRIPTION**

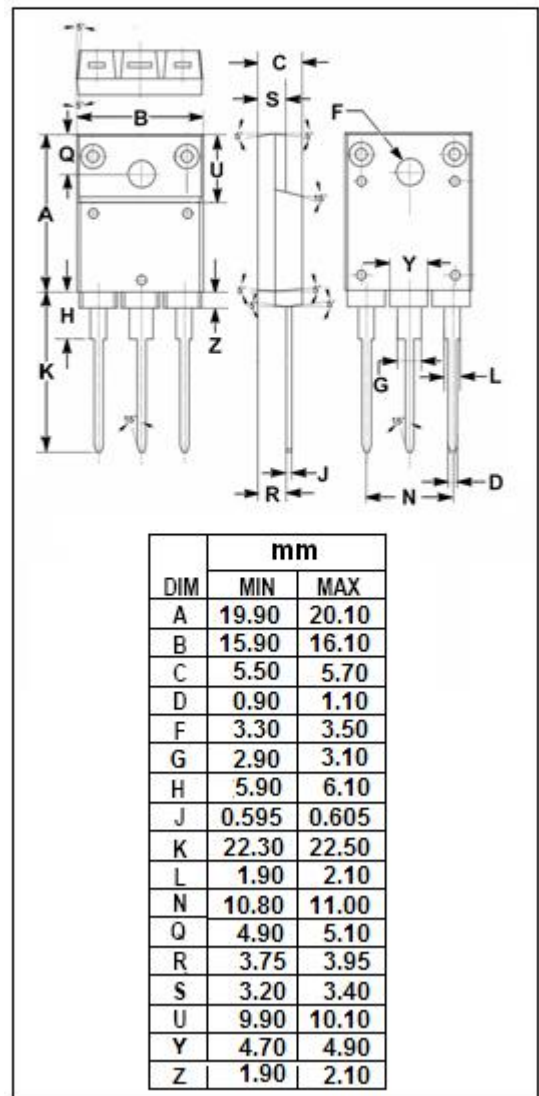
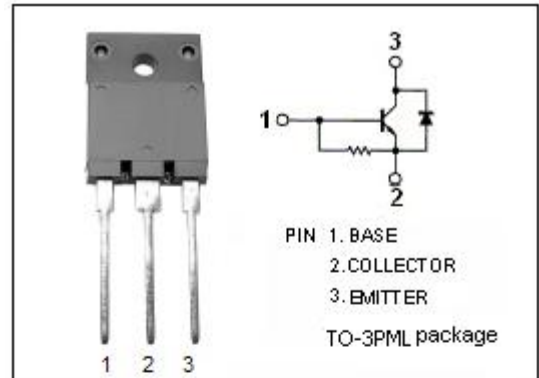
- High Breakdown Voltage-  
:  $V_{CES} = 1500V(\text{Min})$
- Built-in damper diode type
- Isolated package
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- TV/character display horizontal deflection output applications

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CES}$	Collector-Emitter Voltage	1500	V
$V_{EBO}$	Emitter-Base Voltage	6	V
$I_C$	Collector Current-Continuous	8	A
$I_{CP}$	Collector Current-Peak	9	A
$P_C$	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	50	W
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$
$I_D$	C-E Diode Forward Current	8	A



**isc Silicon NPN Power Transistor****2SC4927****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E=500\text{mA}; I_C=0$	6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=6\text{A}; I_B=1.2\text{A}$			5.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C=6\text{A}; I_B=1.2\text{A}$			1.5	V
$I_{CES}$	Collector Cutoff Current	$V_{CE}=1500\text{V}; R_{BE}=0$			500	$\mu\text{A}$
$h_{FE}$	DC current gain	$I_C=1\text{A}; V_{CE}=5\text{V}$			25	
$V_{ECF}$	C-E Diode Forward Voltage	$I_F=8\text{A}$			2.0	V
Switching times						
$t_f$	Fall Time	$I_C=6\text{A}, I_{B1}=1.2\text{A}; I_{B2}=-2.4\text{A}$ $R_L=33.3\ \Omega; f=31.5\text{KHz}$			0.5	$\mu\text{s}$

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