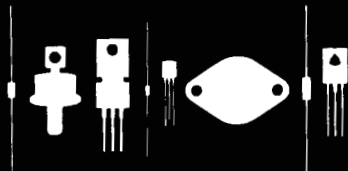


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145 Adams Avenue  
Hauppauge, New York 11788



2N5758 2N5759 2N5760 NPN  
2N6226 2N6227 2N6228 PNP

COMPLEMENTARY SILICON POWER  
TRANSISTORS

JEDEC TO-3 CASE

**DESCRIPTION**

The CENTRAL SEMICONDUCTOR 2N5758, 2N6226 series types are complementary silicon power transistors manufactured by the epitaxial base process mounted in a hermetically sealed metal case designed for medium power amplifier and switching applications where high voltages are required.

MAXIMUM RATINGS ( $T_C=25^\circ\text{C}$  unless otherwise noted)

	SYMBOL	2N5758 2N6226	2N5759 2N6227	2N5760 2N6228	UNIT
Collector-Base Voltage	$V_{CB0}$	100	120	140	V
Collector-Emitter Voltage	$V_{CE0}$	100	120	140	V
Emitter-Base Voltage	$V_{EB0}$	7.0	7.0	7.0	V
Collector Current	$I_C$	6.0	6.0	6.0	A
Collector Current (PEAK)	$I_{CM}$	10	10	10	A
Base Current	$I_B$	4.0	4.0	4.0	A
Power Dissipation	$P_D$	150	150	150	W
Operating and Storage Junction Temperature	$T_J, T_{STG}$	-65 TO +200			$^\circ\text{C}$
Thermal Resistance	$\theta_{JC}$	1.17			$^\circ\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS ( $T_C=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	2N5758 2N6226		2N5759 2N6227		2N5760 2N6228		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	
$I_{CB0}$	$V_{CB}=\text{Rated } V_{CB0}$		1.0		1.0		1.0	mA
$I_{CEV}$	$V_{CE}=\text{Rated } V_{CE0}, V_{BE}(\text{OFF})=1.5\text{V}$		1.0		1.0		1.0	mA
$I_{CEV}$	$V_{CE}=\text{Rated } V_{CE0}, V_{BE}(\text{OFF})=1.5\text{V}, T_C=150^\circ\text{C}$		5.0		5.0		5.0	mA
$I_{CE0}$	$V_{CE}=\frac{1}{2} \text{ Rated } V_{CE0}$		1.0		1.0		1.0	mA
$I_{EBO}$	$V_{BE}=7.0\text{V}$		1.0		1.0		1.0	mA
$BV_{CE0}$	$I_C=200\text{mA}$	100		120		140		V
$V_{CE}(\text{SAT})$	$I_C=3.0\text{A}, I_B=0.3\text{A}$		1.0		1.0		1.0	V
$V_{CE}(\text{SAT})$	$I_C=6.0\text{A}, I_B=1.2\text{A}$		2.0		2.0		2.0	V
$V_{BE}(\text{ON})$	$V_{CE}=2.0\text{V}, I_C=3.0\text{A}$		1.5		1.5		1.5	V
$h_{FE}$	$V_{CE}=2.0\text{V}, I_C=3.0\text{A}$		25 100		20 80		15 60	
$h_{FE}$	$V_{CE}=2.0\text{V}, I_C=6.0\text{A}$		5.0		5.0		5.0	
$h_{fe}$	$V_{CE}=10\text{V}, I_C=2.0\text{A}, f=1.0\text{kHz}$		15		15		15	
$f_T$	$V_{CE}=20\text{V}, I_C=0.5\text{A}, f=0.5\text{MHz}$		1.0		1.0		1.0	MHz
$C_{ob}$	$V_{CB}=10\text{V}, I_E=0, f=0.1\text{MHz}$		300		300		300	pF

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