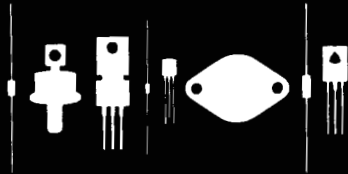


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145 Adams Avenue
Hauppauge, New York 11788



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	θ_{JC}	1.17			$^{\circ}\text{C/W}$

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}	$V_{CE}=\text{Rated } V_{CB0}, V_{BE}(\text{OFF})=1.5\text{V}$		1.0		1.0		1.0	mA
I_{CEV}	$V_{CE}=\text{Rated } V_{CB0}, V_{BE}(\text{OFF})=1.5\text{V}, T_C=150^{\circ}\text{C}$		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_{EB0}	$V_{BE}=7.0\text{V}$		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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