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

COMPLEMENTARY SILICON POWER TRANSISTORS

TO-3 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

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

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_C=25°C)	**SYMBOL**	**2N5758 2N6226**	**2N5759 2N6227**	**2N5760 2N6228**	**UNITS**
Collector-Base Voltage	V_{CBO}	100	120	140	V
Collector-Emitter Voltage	V_{CEO}	100	120	140	V
Emitter-Base Voltage	V_{EBO}		7.0		V
Continuous Collector Current	I_C		6.0		A
Peak Collector Current	I_{CM}		10		A
Continuous Base Current	I_B		4.0		A
Power Dissipation	P_D		150		W
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +200		°C
Thermal Resistance	Θ_{JC}		1.17		°C/W

ELECTRICAL CHARACTERISTICS: (T_C=25°C unless otherwise noted)

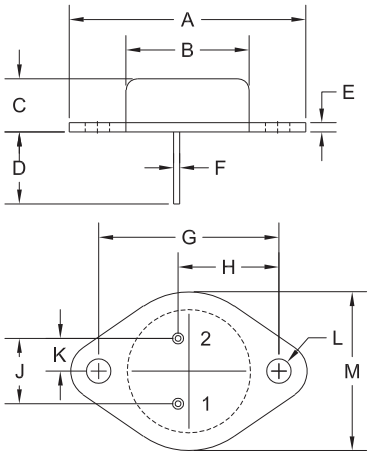
		2N5758 2N6226		**2N5759 2N6227**		**2N5760 2N6228**		
SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**MIN**	**MAX**	**MIN**	**MAX**	**UNITS**
I_{CBO}	V_{CB}=Rated V_{CBO}	-	1.0	-	1.0	-	1.0	mA
I_{CEV}	V_{CE}=Rated V_{CEO}, V_{EB}=1.5V	-	1.0	-	1.0	-	1.0	mA
I_{CEV}	V_{CE}=Rated V_{CEO}, V_{EB}=1.5V, T_C=150°C	-	5.0	-	5.0	-	5.0	mA
I_{CEO}	V_{CE}=½Rated V_{CEO}	-	1.0	-	1.0	-	1.0	mA
I_{EBO}	V_{EB}=7.0V	-	1.0	-	1.0	-	1.0	mA
BV_{CEO}	I_C=200mA	100	-	120	-	140	-	V
$V_{CE(SAT)}$	I_C=3.0A, I_B=0.3A	-	1.0	-	1.0	-	1.0	V
$V_{CE(SAT)}$	I_C=6.0A, I_B=1.2A	-	2.0	-	2.0	-	2.0	V
$V_{BE(ON)}$	V_{CE}=2.0V, I_C=3.0A	-	1.5	-	1.5	-	1.5	V
h_{FE}	V_{CE}=2.0V, I_C=3.0A	25	100	20	80	15	60	
h_{FE}	V_{CE}=2.0V, I_C=6.0A	5.0	-	5.0	-	5.0	-	
h_{fe}	V_{CE}=10V, I_C=2.0A, f=1.0kHz	15	-	15	-	15	-	
f_T	V_{CE}=20V, I_C=0.5A, f=0.5MHz	1.0	-	1.0	-	1.0	-	MHz
C_{ob}	V_{CB}=10V, I_E=0, f=100kHz	-	300	-	300	-	300	pF

R1 (15-February 2013)

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

COMPLEMENTARY SILICON POWER TRANSISTORS

TO-3 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	1.516	1.573	38.50	39.96
B (DIA)	0.748	0.875	19.00	22.23
C	0.250	0.450	6.35	11.43
D	0.433	0.516	11.00	13.10
E	0.054	0.065	1.38	1.65
F	0.035	0.045	0.90	1.15
G	1.177	1.197	29.90	30.40
H	0.650	0.681	16.50	17.30
J	0.420	0.440	10.67	11.18
K	0.205	0.225	5.21	5.72
L (DIA)	0.151	0.172	3.84	4.36
M	0.984	1.050	25.00	26.67

TO-3 (REV: R2)

R2

LEAD CODE:
1) Base
2) Emitter
Case) Collector

MARKING:
FULL PART NUMBER

R1 (15-February 2013)