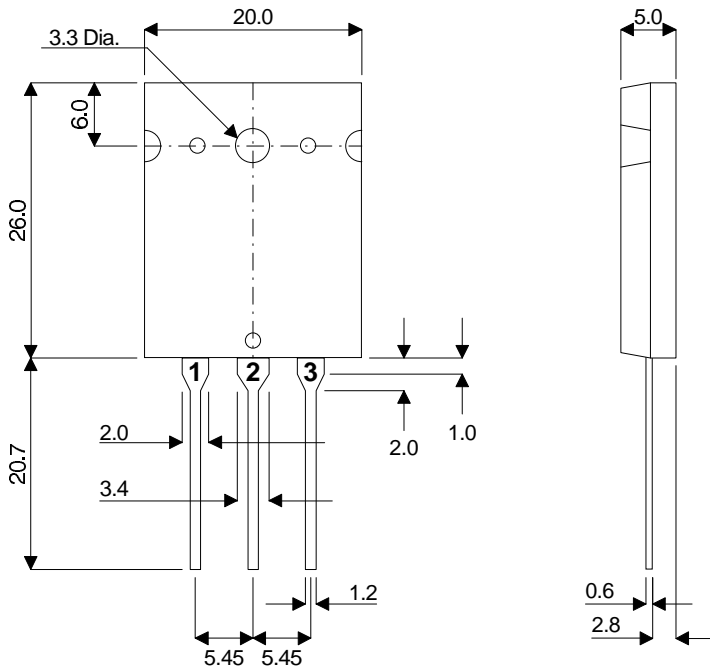


MECHANICAL DATA
Dimensions in mm

**P-CHANNEL
POWER MOSFET**

**POWER MOSFETS FOR
AUDIO APPLICATIONS**



TO-3PBL

Pin 1 – Gate

Pin 2 – Source
Case – Source

Pin 3 – Drain

FEATURES

- HIGH SPEED SWITCHING
- SEMEFAB DESIGNED AND DIFFUSED
- HIGH VOLTAGE (220V & 250V)
- HIGH ENERGY RATING
- ENHANCEMENT MODE
- INTEGRAL PROTECTION DIODES
- COMPLIMENTARY N-CHANNEL BUZ902DP & BUZ903DP

ABSOLUTE MAXIMUM RATINGS

($T_{case} = 25^{\circ}C$ unless otherwise stated)

		BUZ907DP	BUZ908DP
V_{DSX}	Drain – Source Voltage	-220V	-250V
V_{GSS}	Gate – Source Voltage	$\pm 14V$	
I_D	Continuous Drain Current	-16A	
$I_{D(PK)}$	Body Drain Diode	-16A	
P_D	Total Power Dissipation @ $T_{case} = 25^{\circ}C$	250W	
T_{stg}	Storage Temperature Range	-55 to 150°C	
T_j	Maximum Operating Junction Temperature	150°C	
$R_{\theta JC}$	Thermal Resistance Junction – Case	0.5°C/W	

STATIC CHARACTERISTICS ($T_{case} = 25^{\circ}C$ unless otherwise stated)

Characteristic	Test Conditions		Min.	Typ.	Max.	Unit
BV _{DSX} Drain – Source Breakdown Voltage	V _{GS} = 10V	BUZ907DP	-220			V
	I _D = -10mA	BUZ908DP	-250			V
BV _{GSS} Gate – Source Breakdown Voltage	V _{DS} = 0	I _G = ±100µA	±14			V
V _{GS(OFF)} Gate – Source Cut-Off Voltage	V _{DS} = -10V	I _D = -100mA	-0.10		-1.5	V
V _{DS(SAT)} * Drain – Source Saturation Voltage	V _{GD} = 0	I _D = -16A			-12	V
R _{DS(on)} * Static – Source Resistance	V _{GS} = -10	I _D = -16A			0.75	Ω
I _{DSX} Drain – Source Cut-Off Current	V _{GS} = 10V	V _{DS} = -220V BUZ907DP			-10	mA
		V _{DS} = -250V BUZ908DP			-10	mA
y _{fs} * Forward Transfer Admittance	V _{DS} = -10V	I _D = -3A	0.7		4	S

DYNAMIC CHARACTERISTICS ($T_{case} = 25^{\circ}C$ unless otherwise stated)

Characteristic	Test Conditions		Min.	Typ.	Max.	Unit
C _{iSS} Input Capacitance	V _{DS} = -10V f = 1MHz			TBA		pF
C _{oss} Output Capacitance				TBA		
C _{rSS} Reverse Transfer Capacitance				TBA		
t _{on} Turn-on Time	V _{DS} = -20V I _D = -5A			TBA		ns
t _{off} Turn-off Time				TBA		

* Pulse Test: Pulse Width = 300µs , Duty Cycle ≤ 2%.

