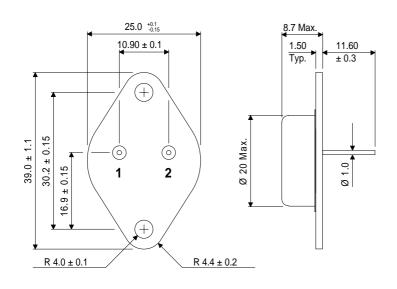




BUZ905 BUZ906

MECHANICAL DATA

Dimensions in mm



TO-3

Pin 1 - Gate

Pin 2 – Drain

Case - Source

P-CHANNEL POWER MOSFET

POWER MOSFETS FOR AUDIO APPLICATIONS

FEATURES

- HIGH SPEED SWITCHING
- P-CHANNEL POWER MOSFET
- SEMEFAB DESIGNED AND DIFFUSED
- HIGH VOLTAGE (160V & 200V)
- HIGH ENERGY RATING
- ENHANCEMENT MODE
- INTEGRAL PROTECTION DIODE
- N-CHANNEL ALSO AVAILABLE AS BUZ900 & BUZ901

ABSOLUTE MAXIMUM RATINGS

$(T_{case} = 25^{\circ}C$	unless otherwise stated)	BUZ905	BUZ906	
V_{DSX}	Drain - Source Voltage	-160V	-200V	
V_{GSS}	Gate – Source Voltage	±14V		
I _D	Continuous Drain Current	-8A		
$I_{D(PK)}$	Body Drain Diode	-8A		
P_{D}	Total Power Dissipation @ T _{case} = 25°C	125W		
T_{stg}	Storage Temperature Range	−55 to 150°C		
T_j	Maximum Operating Junction Temperature	150°C		
$R_{ heta JC}$	Thermal Resistance Junction – Case	1.0°C/W		



STATIC CHARACTERISTICS (T_{case} = 25°C unless otherwise stated)

Characteristic		Test Conditions		Min.	Тур.	Max.	Unit
BV _{DSX}	Drain – Source Breakdown Voltage	V _{GS} = 10V	BUZ905	-160			V
		I _D = -10mA	BUZ906	-200			1
BV _{GSS}	Gate – Source Breakdown Voltage	$V_{DS} = 0$	$I_G = \pm 100 \mu A$	±14			V
V _{GS(OFF)}	Gate – Source Cut–Off Voltage	$V_{DS} = -10V$	$I_D = -100 \text{mA}$	-0.15		-1.5	V
V _{DS(SAT)} *	Drain – Source Saturation Voltage	$V_{GD} = 0$	I _D = -8A			-12	V
I _{DSX}	Drain – Source Cut–Off Current	V _{GS} = -10V	V _{DS} = -160V BUZ905			-10	
			V _{DS} = -200V BUZ906			-10	⊣ mA
yfs*	Forward Transfer Admittance	V _{DS} = -10V	$I_D = -3A$	0.7		2	S

DYNAMIC CHARACTERISTICS (T_{case} = 25°C unless otherwise stated)

	Characteristic	Test Conditions	Min.	Тур.	Max.	Unit
C _{iss}	Input Capacitance	V - 10V		734		pF
C _{oss}	Output Capacitance	V _{DS} = -10V f = 1MHz		300		
C _{rss}	Reverse Transfer Capacitance	1 - 11011 12		26		
t _{on}	Turn-on Time	V _{DS} = -20V		120		ns
t _{off}	Turn-off Time	I _D = -5A		60		1 115

^{*} Pulse Test: Pulse Width = $300\mu s$, Duty Cycle $\leq 2\%$.

