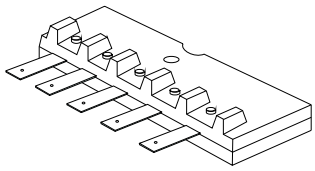
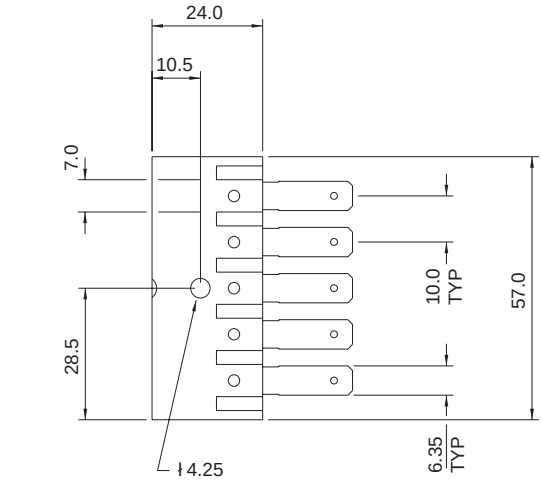
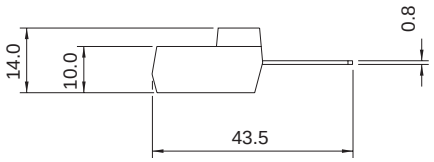
MNT - LB32P16
MNT - LB32P20



MECHANICAL DATA
Dimensions in mm





CASE 2

SMARTPACK POWER MODULE

POWER MOSFETS FOR AUDIO APPLICATIONS

FEATURES

- **P - CHANNEL POWER MOSFETS**
- **HIGH SPEED SWITCHING**
- **SEMEFAB DESIGNED AND DIFFUSED**
- **HIGH VOLTAGE (160V & 200V)**
- **HIGH ENERGY RATING**
- **ENHANCEMENT MODE**
- **INTEGRAL PROTECTION DIODE**
- **N - CHANNEL AVAILABLE**

ABSOLUTE MAXIMUM RATINGS

(T_{case} = 25°C unless otherwise stated)			LB32P16	LB32P20
V_{DSX}	Drain – Source Voltage		-160V	-200V
V_{GSS}	Gate – Source Voltage		±14V	
I_D	Continuous Drain Current		- 32A	
$I_{D(PK)}$	Body Drain Diode		- 32A	
P_D	Total Power Dissipation	@ T_{case} = 25°C	500W	
T_{stg}	Storage Temperature Range		–55 to 150°C	
T_j	Maximum Operating Junction Temperature		150°C	
$R_{\theta JC}$	Thermal Resistance Junction – Case		0.3°C/W	

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MNT - LB32P16
MNT - LB32P20

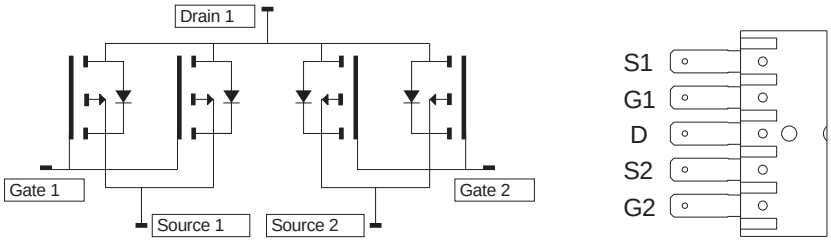
STATIC CHARACTERISTICS (T_{case} = 25°C unless otherwise stated)

	Characteristic	Test Conditions		Min.	Typ.	Max.	Unit
BV_{DSX}	Drain – Source Breakdown Voltage	V_{GS} = 10V I_D = –10mA	LB32P16 LB32P20	–160 –200			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	–0.1		–1.5	V
$V_{DS(SAT)}$*	Drain – Source Saturation Voltage	V_{GS} = –10V	I_D = –32A			–12	V
I_{DSX}	Drain – Source Cut–Off Current	V_{GS} = 10V	V_{DS} = –160V LB32P16			–10	mA
			V_{DS} = –200V LB32P20			–10	
yfs*	Forward Transfer Admittance	V_{DS} = –10V	I_D = –5A	2		6	S

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

	Characteristic	Test Conditions	TYP	Unit
		V_{DS} = –10V f = 1MHz	P-Ch	pF
C_{iss}	Input Capacitance		TBE	
C_{oss}	Output Capacitance		TBE	
C_{rss}	Reverse Transfer Capacitance		TBE	
t_{on}	Turn–on Time	V_{DS} = –20V I_D = –7A	TBE	ns
t_{off}	Turn-off Time		TBE	

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



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