

EC-10N16/20

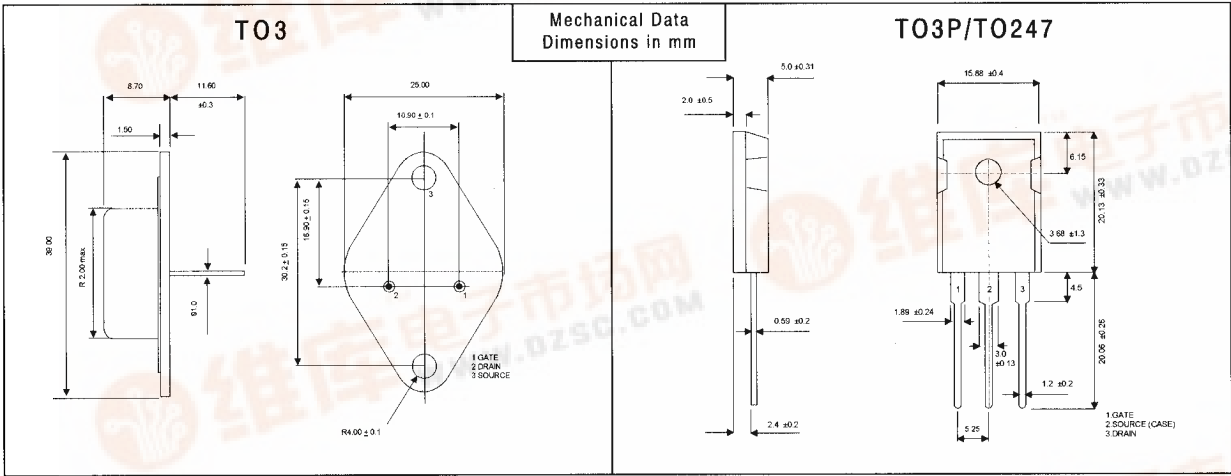
查询EC-10N16供应商

捷多邦, 专业NPN和P-CHANNEL MOSFETS

EC-10P16/20

现货

HIGH QUALITY AUDIO AMPLIFIER APPLICATIONS



ABSOLUTE MAXIMUM RATING (T case = 25°C unless otherwise stated)		(EC-10)16	(EC-10)20
V _{DSX}	Drain - Source Voltage	160V	200V
V _{GSS}	Gate - Source Voltage	±14V	
I _D	Continuous Drain Current	8 A	
I _{D(PK)}	Body Drain Diode	8 A	
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	
RθJC	Thermal Resistance Junction - case	1.0°C/W	

STATIC CHARACTERISTICS (T case = 25°C unless otherwise stated)

Characteristic		Test Conditions		MIN	TYP	MAX	UNIT
BV _{DSX}	Drain - Source Breakdown Voltage	VGS = -10V	(EC-10)16	160			V
		ID = 10mA	(EC-10)20	200			V
BV _{GSS}	Gate - Source Breakdown Voltage	VDS = 0	IG =±100uA	±14			V
V _{GS(OFF)}	Gate-Source Cut-Off Voltage	VDS= 10V	ID= 100mA	0.15		1.5	V
V _{DS(SAT)*}	Drain - Source Saturation Voltage	VGD = 0	ID = 8A			12	V
I _{DSX}	Drain - Source Cut - Off Current	VGS =-10V	VDS = 160V (EC-10)16			10	m A
			VDS =200V (EC-10)20			10	
Yfs*	Forward Transfer Admittance	VDS = 10V	ID = 3A	0.7		2	S

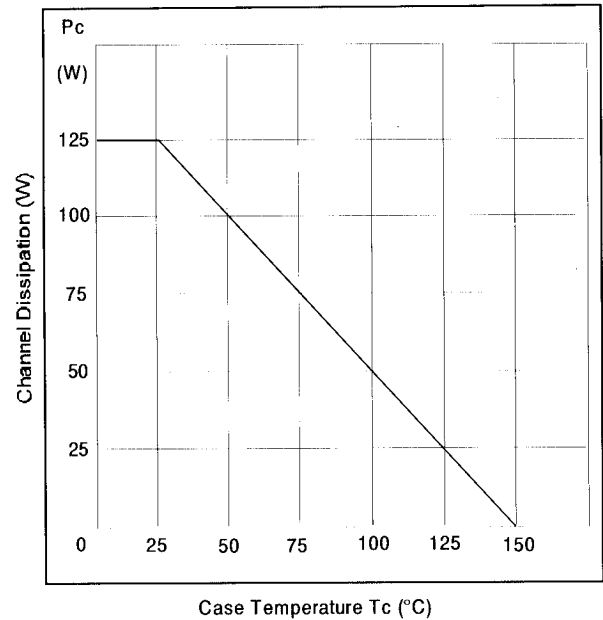
DYNAMIC CHARACTERISTICS (T case = 25°C unless otherwise stated)

Characteristic	Test Conditions	N-Channel P-Channel		UNIT
Ciss	Input Capacitance	TYPICAL		pF
Coss	Output Capacitance	500	700	
Crss	Reverse Transfer Capacitance	300	300	
t _{on}	Turn-on Time	10	25	ns
t _{off}	Turn-off Time	100	120	
		50	60	

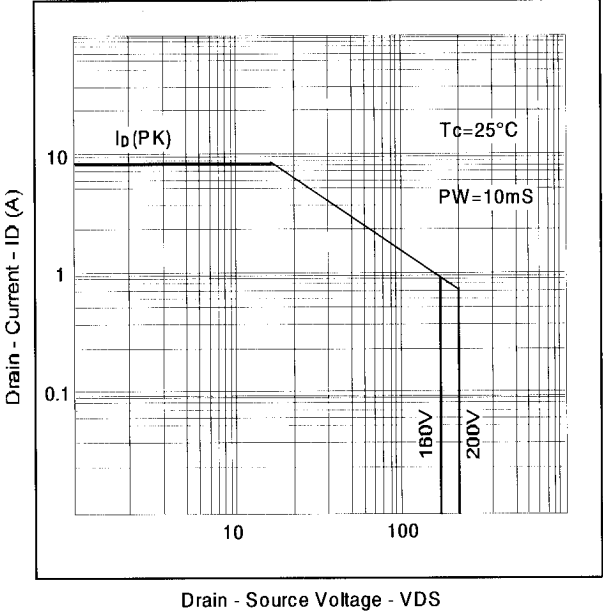
*Pulse Test: Pulse width = 200µs, Duty Cycle = 2%

Typical Characteristics for 125W Devices.

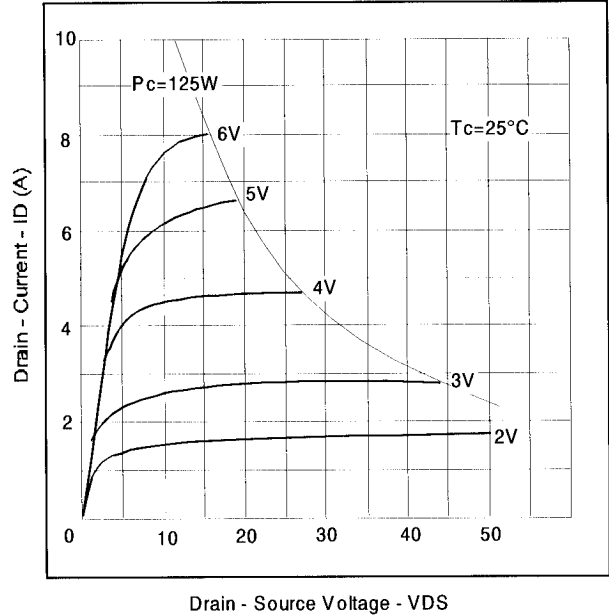
Power vs. Temperature Derating



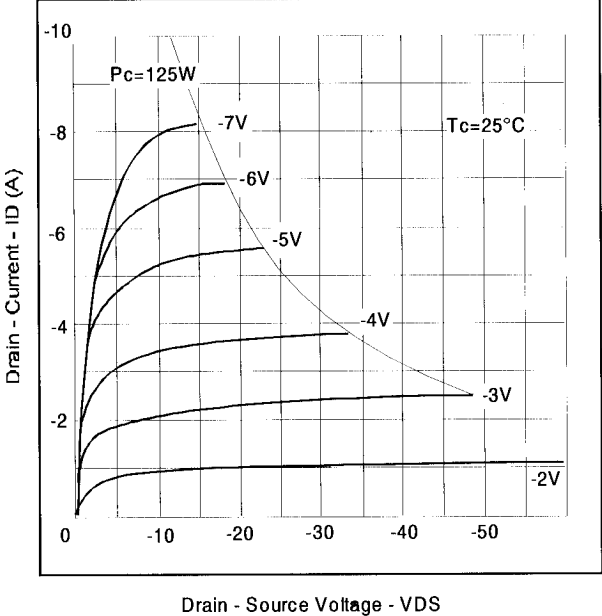
Maximum Safe Operating Area



Typical Output (N-Channel)



Typical Output (P-Channel)



Typical Characteristics for 125W Devices (cont.)

