

UNISONIC TECHNOLOGIES CO., LTD

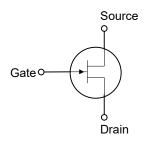
MMBFJ58 Preliminary JFET

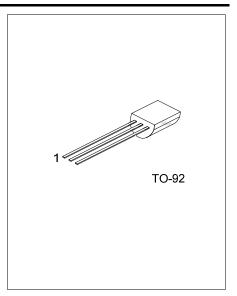
N-CHANNEL JFET LOW-FREQUENCY LOW-NOISE AMPLIFIER

■ FEATURES

- * Designed for Low Level Analog Switching, Sample and Hold Circuits and Chopper Stabilized Amplifiers
- * Source & Drain are Interchangeable



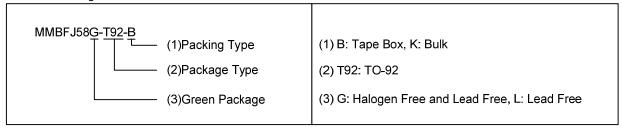




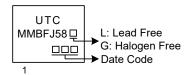
ORDERING INFORMATION

Ordering Number		Davis	Pin Assignment			Da aldin n	
Lead Free	Halogen Free	Package	1	2	3	Packing	
MMBFJ58L-T92-B	MMBFJ58G-T92-B	TO-92	D	S	G	Tape Reel	
MMBFJ58L-T92-K	MMBFJ58G-T92-K	TO-92	D	S	G	Tape Reel	

Note: Pin Assignment: D: Drain S: Source G: Gate



MARKING



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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATING	UNIT
Drain-Source Voltage	V _{DS}	40	V
Drain-Gate Voltage	V_{DG}	40	V
Gate-Source Voltage	V _{GSS}	-40	V
Forward Gate Current	lgf	50	mA
Power Dissipation	P _D	625	mW
Junction Temperature	TJ	-55 ~ +150	°C
Storage Temperature	Tstg	-55 ~ + 150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL DATA

PARAMETER	SYMBOL	RATING	UNIT
Junction to Ambient	θја	200	°C/W
Case to Ambient	θјς	125	°C/W

Note: Device mounted on FR-4 PCB.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT	
OFF CHARACTERISTICS							
Gate-Source Breakdown Voltage	V _{(BR)GSS}	I _G =-1.0μA, V _{DS} =0	-40			V	
Gate Reverse Current (Note)	Igss	V _{GS} =-20V, V _{DS} =0			-1.0	nA	
Gate-Source Cut-Off Voltage	V _{GS(OFF)}	V _{DS} =15V, I _D =10nA	-2		-5	V	
Off-State Drain Current	I _{D(OFF)}	V _{GS} =-12V, V _{DS} =15V			1	nA	
ON CHARACTERISTICS							
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =15V, V _{GS} =0	8.0		80	mA	
Drain-Source On Voltage	V _{DS(ON)}	I _D =12mA, V _{GS} =0			0.4	V	
Drain-Source On Resistance	RDS(ON)	V _{DS} ≤ 0.1V, V _{GS} =0			60	Ω	

Note: Pulse test: pulse width \leq 300 μ s, duty cycle \leq 2%.

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