## **MFE825**

**CASE 22-03, STYLE 2** TO-18 (TO-206AA)

## MOSFET

N-CHANNEL - DEPLETION

**MAXIMUM RATINGS** Symbol Value Unit Drain-Source Voltage V<sub>DS</sub> 20 Vdc Gate-Source Voltage 30  $v_{GS}$ Vdc **Drain Current** 25 lD mΑ Total Device Dissipation @  $T_A = 25^{\circ}C$  $P_{\mathsf{D}}$ 200 mW Derate above 25°C mW/°C 1.6 Junction Temperature Range Tj 150 °C Operating and Storage Junction T<sub>J</sub>, T<sub>stg</sub> -65 to + 150°C Temperature Range

Refer to 2N3796 for graphs.

**ELECTRICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C unless otherwise noted.)

Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS				
Drain-Source Breakdown Voltage (I <sub>D</sub> = 1.0 µA, V <sub>GS</sub> = -8.0 V)	V <sub>(BR)DSX</sub>	20	-	Vdc
Gate Reverse Current (VGS = -10 V, VDS = 0 V)	IGSS	_	-1.0	pΑ
Gate Source Voltage (I <sub>D</sub> = 1.0 µA, V <sub>DS</sub> = 2.0 V)	V <sub>GS</sub>	0	- 2.0	Vdc
ON CHARACTERISTICS	<u> </u>			
Zero-Gate-Voltage Drain Current (VDS = 10 V, VGS = 0)	IDSS	1.0	25	mA
SMALL-SIGNAL CHARACTERISTICS			-	
Forward Transfer Admittance (Vps = 10 V, Vgs = 0, f = 1.0 kHz)	lYfsl	500	_	μmhos