

## General Purpose Junction F.E.T.s

REFERENCE TABLE

Code	Min. $V_{GS}$ Volts	$I_{DSS}$ mA	$Y_{fs}$ $\mu$ mhos	Max. $V_{GS}$ (off) Volts	Max. $C_{iss}$ pF	Max. 1kHz NF dB	Max. $I_{DSS}$ nA	Stock No.	Outline Drawing No.
MEF101	30	0.2-20	500	10	8	2.5	0.5	19341B	} 77
MEF102	40	0.2-1	1000	1.5	8	2.5	0.1	31291X	
MEF103	40	0.9-4.5	1500	4	8	2.5	0.1	19342X	
MEF104	50	4-20	2000	10	8	2.5	0.1	19343R	
2N4302	30	2.0-5	1000-	4	6	2.5	1	31318R	
2N4303	30	4.0-10	2000-	6	6	2.5	1	31319G	
2N4304	30	0.5-15	1000-	10	6	2.5	1	31320X	

## Programmable Unijunction Transistors (P.U.T.)

The MICRO ELECTRONICS MEU is a three-terminal planar passivated PNP device in the standard epoxy TO-106 package. It is functionally equivalent to the unijunction transistor, but has many superior characteristics. The designer can select external resistors to program unijunction characteristics such as  $\eta$ ,  $R_{B1}$ ,  $I_p$  and  $V_V$  to meet his particular needs.

The MEU22 is specifically characterized for long interval timers and other applications requiring low leakage and low peak point current.

The MEU21 has been characterized for general use where the low peak point current of the MEU22 is not essential. Applications of the MEU21 include timers, high gain phase control circuits and relaxation oscillators.

REFERENCE TABLE

Code	$P_D$ mW	$V_{GK}$ (forward) min. V	$V_{AK}$ min. V	$I_A$ (DC) max. mA	$I_D$ max. $\mu$ A	$I_{GAO}$ nA	Stock No.	Outline Drawing No.
MEU21	300	+40	$\pm 40$	150	5	10	19344G	} 77
MEU22	300	+40	$\pm 40$	150	1	10	19345E	

## Light Detectors

REFERENCE TABLE

Code	Case	$P_D$ mW	$V_{CBO}$ V	$V_{CEO}$ V	$V_{EBO}$ V	Light current mA	Dark current nA	Stock No.	Outline Drawing No.
<b>Silicon Photo-Darlington Amplifiers</b>									
MEL11	TO-106 } Clear	360	40	30	10	2	100	31308B	} 77
MEL12	TO-106 } Top	360	60	40	10	3	100	31309X	
<b>Silicon Photo-Transistors</b>									
MEL31	TO-106 } Clear	360	40	30	8	0.01	50	31310C	} 77
MEL32	TO-106 } Top	360	60	40	8	0.03	50	31311A	

PLEASE QUOTE STOCK NO. AND MANUFACTURER'S CODE WHEN ORDERING

## General Purpose Amplifiers

Epoxy Package  
REFERENCE TABLE

Code	BV <sub>GSS</sub> *BV <sub>DGO</sub>	I <sub>GSS</sub> (nA) Max	I <sub>DSS</sub> (mA)		Y <sub>fs</sub> (μmhos)		V <sub>p(off)</sub> (V) Max	C <sub>iss</sub> (pF) Max	C <sub>rss</sub> (pF) Max	Stock No.	Outline Drawing No.
	(V) Min		Min	Max	Min	Max					
E101	30	0.5	0.2	1	500		1.5	8	3	30779X	77
MPF103	25	1	1	5	1000	5000	6	7	3	30882X	} 73
MPF104	25	1	2	9	1500	5500	7	7	3	30783H	
MPF105	25	1	4	16	2000	6000	8	7	3	31330F	
MPF109	25	1	0.5	24	800	6000	9	7	3	31334R	
MPF110	20	100	0.5	20						29495X	
MPF111	20	10	0.5	20	500		10			31336E	} 77
2N3819	25	2	2	20	2000	6500	8	8	4	30761R	
2N4302	*30	1	0.5	5	1000		4	6	3	30772C	
2N4303	*30	1	4	10	2000		6	6	3	30773A	
2N5457	25	1	1	5	1100	5000	6	7	3	31360E	
2N5458	25	1	2	9	1500	5500	7	7	3	31361C	} 73
2N5459	25	1	4	16	2000	6000	8	7	3	31362A	

## RF Amplifiers

Metal Can and Epoxy Package  
REFERENCE TABLE

Code	BV <sub>GSS</sub> (V)	I <sub>GSS</sub> (nA) Max	I <sub>DSS</sub> (mA)		Y <sub>fs</sub> /(μmho) @ f (MHz)		V <sub>p(off)</sub> (V) Max	C <sub>iss</sub> (pF) Max	C <sub>rss</sub> (pF) Max	Stock No.	Outline Drawing No.
	(V) Min		Min	Max	Min	Max					
MPF102	25	2	2	20	1600	100	8	7	3	30781A	} 73
MPF106	25	1	4	10			4	5	2	31331D	
MPF107	25	1	8	20			6	5	2	31332B	
MPF108	25	1	1.5	24	1600	100	8	6.5	2.5	31333X	
MPF112	20	100	1	25	1000		10			31337C	
U1837E	30	1	4	25	4000	200	8	6	2	30786B	} 77
2N3822	50	0.1	4	20	3000	100	6	6	3	30762G	
2N3823	30	0.5	4	20	3200	200	8	6	2	31363X	} 70
2N5485	25	1	4	10	3000	400	4	5	1	31363X	
2N5486	25	1	8	20	3500	400	6	5	1	31364H	

## Switches

Metal Can  
REFERENCE TABLE

Code	BV <sub>GSS</sub> (V)	I <sub>GSS</sub> (nA) Max	I <sub>DSS</sub> (mA)		I <sub>D(off)</sub> (nA) Max	V <sub>p(off)</sub> (V) Max	C <sub>iss</sub> (pF) Max	C <sub>rss</sub> (pF) Max	r <sub>ds(on)</sub> (ohms) Max	t <sub>on</sub> (ns) Max	t <sub>off</sub> (ns) Max	Stock No.	Outline Drawing No.
	(V) Min		Min	Max									
TIS74	30	2	20	100	2	6	18	8	40	10	50	30784F	} 77
TIS75	30	2	8	80	2	4	18	8	60	20	100	30785D	
2N4092	40	0.2	15	—	0.2	7	16	5	50	35	60	30786X	} 65
2N4391	40	0.1	50	150	0.1	10	14	3.5	30	20	35	30774X	
U1897E	40	0.2	30	—	—	10	16	5	30	25	40	34507F	77
2N5434	25	0.2	30	—	0.2	4	30	15	10	5	36	34596E	121

## Monolithic Duals

REFERENCE TABLE

Code	BV <sub>GSS</sub> (V)	I <sub>G</sub> (pA) Max	V <sub>GS(off)</sub> (V)		I <sub>DSS</sub> (mA)		Y <sub>fs</sub> (μmhos)		C <sub>iss</sub> (pF) Max	C <sub>rss</sub> (pF) Max	Y <sub>os</sub> (μmhos) Max	V <sub>GS1</sub> .V <sub>GS2</sub> (mV) Max	Stock No.	Outline Drawing No.
	(V) Min		Min	Max	Min	Max	Min	Max						
FM1108	35	50	1.0	6.0	1.0	10.00	1000	6000	5.0	0.6	50	10	30780C	97
2N3958	50	50	0.5	4	0.5	5	1000	3000	4	1.2	25	25	34379A	} 152
2N3955	50	50	0.5	4	0.5	5			4	1.2	10		34461B	

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