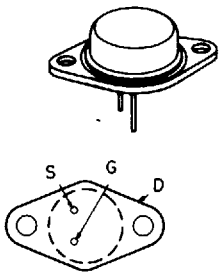



Power MOSFETs

ECG Type	Description and Application	Transconductance gfs mhos	Drain to Source Breakdown Voltage BV _{DSS}	Gate to Source Breakdown Voltage BV _{GS}	Continuous Drain Current I _D Amps	Gate to Source Cutoff Voltage V _{GS} (off)	Drain to Source Resistance r _{DS} (on) Ohms	Input Cap C _{iss} pf	Device Dissipation @T _C = 25°C P _D Watts	Package
										Case/Fig./Basing
ECG2392 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	6 Min	100 Min	± 20 Max*	32	4 Max td(off) = 300 ns, td(on) = 50 ns, tf = 200 ns, tr = 200 ns	.06 Max	1500 Typ	125 Max	TO-3 Fig. T28 
ECG2386 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	2 Min	600 Min	± 20 Max*	6	4.5 Max td(off) = 200 ns, td(on) = 60 ns, tf = 120 ns, tr = 150 ns	1.2 Max	1800 Max	150 Max	
ECG2384 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	1.8 Min	800 Min	± 20 Max*	6	4 Max td(off) = 500 ns, td(on) = 60 ns, tf = 100 ns, tr = 100 ns	1.5 Max	3500 Max	125 Max	
ECG2390 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	3 Min	60 Min	± 20 Max*	12	4.5 Max td(off) = 80 ns, td(on) = 60 ns, tf = 110 ns, tr = 160 ns	.2 Max	800 Max	75 Max	TO-220 Fig. T41 
ECG2382 ▲ (Compl to ECG2383)	MOSFET, N-Ch, Enhancement Hi Speed Switch	1.5 Min	100 Min	± 20 Max*	8	4 Max td(off) = 50 ns, td(on) = 50 ns, tf = 60 ns, tr = 120 ns	.5 Max	750 Max	75 Max	
ECG2383 ▲ (Compl to ECG2382)	MOSFET, P-Ch, Enhancement Hi Speed Switch	2 Min	100 Min	± 20 Max*	8	4.5 Max td(off) = 200 ns, td(on) = 80 ns, tf = 150 ns, tr = 150 ns	.4 Max	1200 Max	75 Max	
ECG66 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	3 Min	100 Min	± 20 Max*	12	4.5 Max td(off) = 200 ns, td(on) = 50 ns, tf = 100 ns, tr = 100 ns	.18 Max	1200 Max	75 Max	
ECG2388 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	5 Min	200 Min	± 20 Max*	12.5	4 Max td(off) = 120 ns, td(on) = 20 ns, tf = 60 ns, tr = 60 ns	.2 Max	1000 Typ	75 Max	
ECG67 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	2 Min	400 Min	± 20 Max*	5	4.5 Max td(off) = 200 ns, td(on) = 50 ns, tf = 100 ns, tr = 100 ns	1.5 Max	1200 Max	75 Max	
ECG2380 ▲ (Compl to ECG2381)	MOSFET, N-Ch, Enhancement Hi Speed Switch	1 Min	500 Min	± 20 Max*	2	4.5 Max td(off) = 60 ns, td(on) = 40 ns, tf = 30 ns, tr = 60 ns	4 Max	500 Max	75 Max	
ECG2381 ▲ (Compl to ECG2380)	MOSFET, P-Ch, Enhancement Hi Speed Switch	.5 Min	500 Min	± 20 Max*	2	4.5 Max td(off) = 150 ns, td(on) = 150 ns, tf = 50 ns, tr = 100 ns	6 Max	1000 Max	75 Max	
ECG2385 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	5 Min	500 Min	± 30 Max*	8	4 Max td(off) = 250 ns, td(on) = 40 ns, tf = 90 ns, tr = 90 ns	.8 Max	1800 Max	125 Max	
ECG2387 ▲	MOSFET, N-Ch, Enhancement Hi Speed Switch	3 Min	800 Min	± 30 Max*	4	4 Max td(off) = 150 ns, td(on) = 25 ns, tf = 60 ns, tr = 40 ns	3 Max	1250 Max	125 Max	

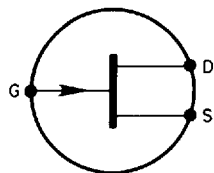
* Warning - Exceeding BV_{GS} maximum will result in permanent damage to the gate region oxide layer.

▲ Refer to MOSFET Handling Precautions - Page 1-31

Package Outline - See Page 1-76

FET and MOSFET Diagrams (Observe MOS Handling) ▲

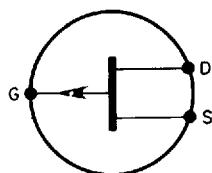
Depletion N-Ch JFET



ECG

312 456
451 457 461 (Dual) 468
452 458 466 469
453 459 467

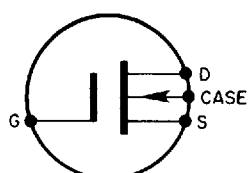
Depletion P-Ch JFET



ECG

326
460
489

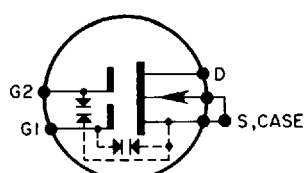
Depletion N-Ch MOSFET



ECG

220
462

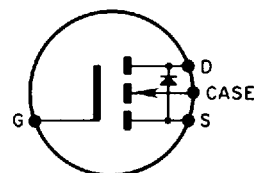
Dual Gate Depletion N-Ch MOSFET



ECG

221
222 (Gate Protected)
454 (Gate Protected)
455 (Gate Protected)

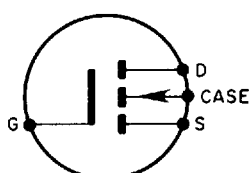
Enhancement N-Ch MOSFET



ECG

66 2382 2386 2390
67 2384 2387 2392
2380 2385 2388

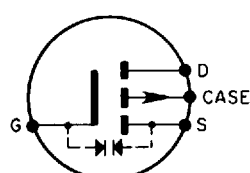
Enhancement N-Ch MOSFET



ECG

465

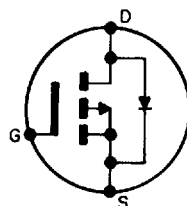
Enhancement P-Ch MOSFET



ECG

463 (Dual)
(Gate Protected)
464

Enhancement P-Ch MOSFET



ECG

2381
2382