

SMALL-SIGNAL TRANSISTORS & DIODES & MEDIUM-POWER RECTIFIERS

Small-signal FETs

N-CHANNEL SINGLE-GATE MOSFETS

type number	mode	ratings		characteristics										package
		V_{DS} max. (V)	I_D max. (mA)	I_{DSS} min. (mA)	$-V_{(P)GS}$ min. (V)	$-V_{(P)GS}$ max. (V)	$R_{DS(on)}$ max. (Ω)	@ I_D/V_{GS} (mA/V)	t_{on} typ. (ns)	t_{off} typ. (ns)	C_{is} typ. (pF)	C_{rs} typ. (pF)		
LEADED TYPES														
BFR29	depl.	15	20	10	-	4	-	-	-	-	5 ⁵⁾	0.7 ⁵⁾	TO-72	
BSD12 ¹⁾	depl.	20	50	-	-	2	30	1/10	1	5	2.3	0.6	TO-72	
BSD212	enh.	10	50	-	0.1	2	45	1/10	1	5	2.3	0.6	TO-72	
BSD213 ¹⁾	enh.	10	50	-	0.1	2	45	1/10	1	5	2.3	0.6	TO-72	
BSD214	enh.	20	50	-	0.1	2	45	1/10	1	5	2.3	0.6	TO-72	
BSD215 ¹⁾	enh.	20	50	-	0.1	2	45	1/10	1	5	2.3	0.6	TO-72	
BSV81	depl.	30	25	14	-	4	50	1/5	-	-	-	0.5 ⁵⁾	TO-72	
SURFACE-MOUNT TYPES														
BSD22 ¹⁾	depl.	20	50	-	-	2	30	1/10	1	5	1.5	0.6	SOT143	
BSS83 ¹⁾	enh.	10	50	-	0.1	2	45	0.1/10	1	5	1.5	0.6	SOT143	

1) gate protected

2) $V_{(GS)th}$ for enhancement types

3) $t_{on} = t_{delay} + t_{rise}$

4) $t_{off} = t_{delay} + t_{fall}$

5) maximum value



DUAL-GATE N-CHANNEL MOSFETS

See Tuner transistors & diodes Section