

POWER MOSFET

20V MOSFET series

N-Channel, Enhancement type

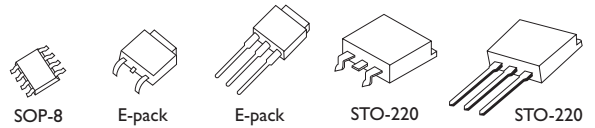


Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline	
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS(ON)} V _{GS} =2.5V (max)	C _{ISS} (typ)	C _{RSS} (typ)	t _{ON} (typ)	t _{OFF} (typ)	Package	Figure
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]		
F7H2N	150	20	±12	7	2	0.029	1450	170	230	215	SOP-8	92
F5H2ND				5	2	0.047	700	95	100	170		

D: Dual, without D is Single

30V MOSFET series

N-Channel, P-Channel, Enhancement type



Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline	
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS(ON)} V _{GS} =4V (max)	C _{ISS} (typ)	C _{RSS} (typ)	t _{ON} (typ)	t _{OFF} (typ)	Package	Figure
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]		
2SK2816	150	30	±20	5	10	0.16	180	40	30	65	E-pack	78-4 (SMD 77-4)
2SK2817				10	15	0.1	300	60	60	100		
2SK2818				15	20	0.07	440	90	95	150		
2SK2819				20	25	0.04	790	150	125	230		
2SK2820				45	55	0.02	1720	330	305	465		
2SK2821				70	70	0.01	3800	710	400	950		
2SJ487	150	-30	±20	-3	10	0.5	230	30	50	55	E-pack	78-4 (SMD 77-4)
2SJ488				-5	15	0.3	320	40	60	85		
2SJ489				-7	20	0.21	480	50	85	130		
2SJ490				-10	25	0.12	870	90	120	195		
2SJ491				-20	55	0.06	1900	210	245	385		
F4H3N	150	30	±20	4	2	0.1	300	60	40	95	SOP-8	92
F5H3N				5	2	0.07	440	90	50	140		
F8H3N				8	2	0.04	730	150	60	220		
F10H3N				10	2	0.023	1400	340	130	450		
F2H3ND				2.5	2	0.25	130	30	25	47		
F3H3ND				3	2	0.16	180	40	30	65		
F4H3ND				4	2	0.1	300	60	40	95		
F5H3ND				5	2	0.07	440	90	50	140		
F3H3P				-2.5	2	0.3	320	40	45	90		
F4H3P				-3.5	2	0.21	480	50	55	120		
F5H3P	-4.5	2	0.12	760	90	60	190					
F7H3P	-6.5	2	0.06	1550	210	160	550					
F3H3PD	-2.5	2	0.3	320	40	45	90					
F4H3PD	-3.5	2	0.21	480	50	55	120					
F3H3C	150	30	±20	2.5	2	0.25	130	30	25	47	SOP-8	92
		-30		-2.5		0.3	320	40	45	90		
F4H3C	150	30	±20	4	2	0.1	300	60	40	95	SOP-8	92
		-30		-3.5		0.21	480	50	55	120		

D: Dual; C: Complement; without D or C is Single

*1: Leaded package - Fig. 76-2; SMD package - Fig. 74-3

40V MOSFET series

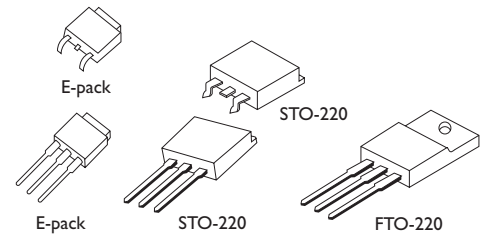
N-Channel, Enhancement type



Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline	
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS(ON)} V _{GS} =4V (max)	C _{ISS} (typ)	C _{RSS} (typ)	t _{ON} (typ)	t _{OFF} (typ)	Package	Figure
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]		
F9H4N	150	40	±20	9	2	0.03	1500	220	110	380	SOP-8	92

D: Dual, without D is Single

POWER MOSFET



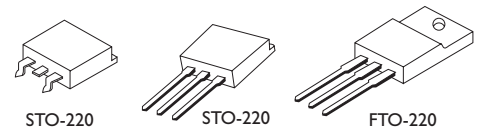
60V MOSFET series

N-Channel, P-Channel, Enhancement type

Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline	
	T _{ch}	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS (ON)} (max)	C _{iss} (typ)	C _{rss} (typ)	t _{on} (typ)	t _{off} (typ)	Package	Figure
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]		
2SK2279	150	60	±20	2	15	0.35	190	30	30	95	E-pack	78-4 (SMD 77-4)
2280				5	20	0.16	420	80	50	155		
2281				10	25	0.1	700	120	70	230		
2282					40							
2283					30							
2284				15	50	0.07	960	160	90	280		
2285					35							
2286					60							
2287				20	40	0.045	1500	280	110	430		
2288					70							
2289					50							
2290				30	75	0.03	2300	400	150	630		
2291					55							
2291					75							
2291				45	55	0.02	3800	700	240	985		
2291	55											
2291	55											
2SJ365	150	-60	±20	-2	20	0.45	400	90	40	170	E-pack	78-4 (SMD 77-4)
366				-5	25	0.25	630	150	55	260		
367					40							
368					30							
369				-10	50	0.16	900	210	75	300		
370					35							
371					60							
372				-15	40	0.1	1350	340	110	480		
373					70							
374					50							
375				-20	75	0.07	2050	520	160	700		
375					50							
376					75							
376				-30	55	0.045	3500	800	250	1100		
376					55							
376	55											

*I: Leaded package - Fig. 76-2; SMD package - Fig. 74-3.

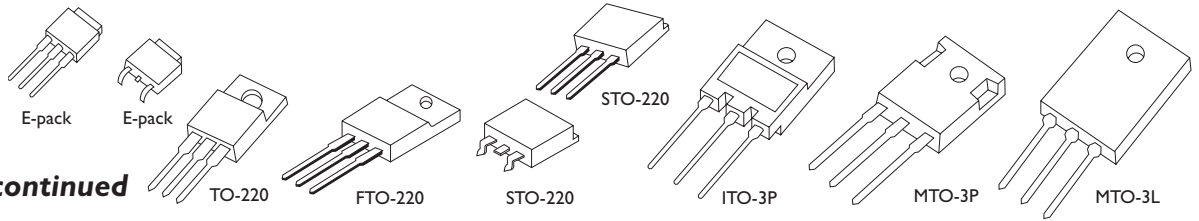
VZ series



Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline				
	T _{ch}	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS (ON)} (max)	C _{iss} (typ)	C _{rss} (typ)	t _{on} (typ)	t _{off} (typ)	Package	Figure			
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]					
2SK2489	150	180	±30	10	45	0.25	720	80	50	140	FTO-220	84-4			
2490					40										
2491				20	70	0.13	1600	190	95	300					
2492													20		
2559				200	20	60	10	40	0.30	840			80	50	140
2560							20	60	0.18	1800			165	100	280

*I: Leaded package - Fig. 76-2; SMD package - Fig. 74-3

POWER MOSFET



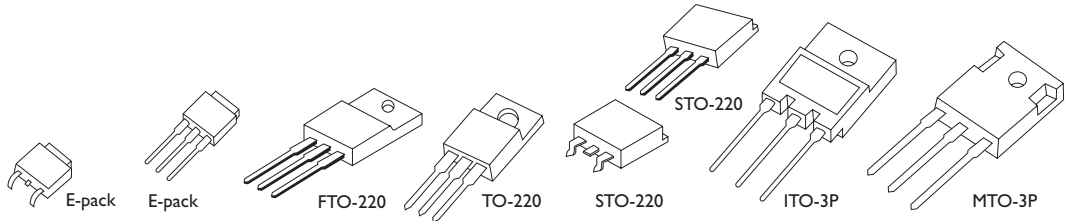
VX-II series – continued

N-Channel, Enhancement type

Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline							
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS (ON)} (max)	C _{iss} (typ)	C _{rss} (typ)	t _{on} (typ)	t _{off} (typ)	Package	Figure						
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]								
2SK2191	150	500	±30	12	60	0.7	1200	90	90	190	STO-220	*1						
2192					80						MTO-3P	86-3						
2193					50						ITO-3P	88-4						
2475				15	500	±30	110	0.45	1900	135	110	270	FTO-220	84-4				
2194													60	MTO-3P	86-3			
2195							125	ITO-3P					88-4					
2196							70	MTO-3P					86-3					
2197							0.35	ITO-3P					88-4					
2198							220	MTO-3L					89-2					
3005							30	4.4					250	20	20	50	E-Pack	*2
2563	150	600	±30	2	20	2.2	540	40	28	110	FTO-220	84-4						
3006					30						TO-220	80-4						
3007				4	50	1.2	1130	85	55	195	250	230	130	260	STO-220	*1		
2564															50	FTO-220	84-4	
3009															60	STO-220	*1	
3011				8	80	0.6	2300	180	130	260	130	260	130	260	260	MTO-3P	86-3	
3012																125	MTO-3P	86-3
3013																70	ITO-3P	88-4

*1 : Leaded package - Fig. 76-2; SMD package - Fig. 74-3 *2 : Leaded package - Fig. 78-4; SMD package - Fig. 77-4

★ : Under development



HVX-II series

N-Channel, Enhancement type

Type No.	Absolute Maximum Ratings					Electrical Characteristics					Outline							
	Tch	V _{DSS}	V _{GSS}	I _D	P _T	R _{DS (ON)} (max)	C _{iss} (typ)	C _{rss} (typ)	t _{on} (typ)	t _{off} (typ)	Package	Figure						
	[°C]	[V]	[V]	[A]	[W]	[Ω]	[pF]	[pF]	[ns]	[ns]								
2SK2333	150	900	±30	6	50	2.0	1250	250	70	160	FTO-220	84-4						
2663					10						14.0	230	5	10	50	E-pack	*1	
2664				3	50	4.7	630	16	40	140	210	210	210	210	TO-220	80-4		
2665															50	STO-220	*2	
2666															30	FTO-220	84-4	
2667				65	40	2.8	1140	23	55	210	210	210	210	210	MTO-3P	86-3		
2668															40	ITO-3P	88-4	
2669				5	60	2.0	1450	37	95	330	330	330	330	330	330	TO-220	80-4	
2670																60	STO-220	*2
2671																40	FTO-220	84-4
2672				80	50	1.4	2150	50	140	440	440	440	440	440	440	MTO-3P	86-3	
2673																50	ITO-3P	88-4
2674				7	100	2.0	1450	37	95	330	330	330	330	330	330	MTO-3P	86-3	
2675																55	ITO-3P	88-4
2676				10	120	0.6	2300	180	130	260	260	260	260	260	260	MTO-3P	86-3	
2677																65	ITO-3P	88-4

*1 : Leaded package - Fig. 78-4; SMD package - Fig. 77-4 *2: Leaded package - Fig. 76-2; SMD package - Fig. 74-3