

Standard gate single PowerMOS transistors (N-channel)

Single rad hard standard gate N-channel MOSFETs based on Infineon's unique CoolMOS™ technology, rated from 60 V to 650 V, 100 krad TID (300 krad TID on request) in through hole and SMD package options screened to ESCC-5000 and available as ESA QPLs. These MOSFETs are also available as qualified bare die.

Part number	ESCC part number	Package	V_{DSS} (V)	$R_{DS(on)}$ @25°C (mΩ)	Q_G (nC)	I_D @25°C (A)	I_{Dpulv} (A)	Power dissipation (W)	Gate voltage	ESD class	ESA qualified
BUY06CS23K-01(ES)	5205 032 03	TO-257AA	60	36	26	23	100	75	+/- 20	2	QPL
BUY06CS23K-01(P)		TO-257AA	60	36	26	23	100	75	+/- 20	2	
BUY06CS35J-01(ES)	5205 032 01	SMD-05	60	28	25	35	100	75	+/- 20	2	QPL
BUY06CS35J-01(P)		SMD-05	60	28	25	35	100	75	+/- 20	2	
BUY06CS45B-01(ES)	5205 032 04	TO-254AA	60	14	75	45	200	208	+/- 20	2	QPL
BUY06CS45B-01(P)		TO-254AA	60	14	75	45	200	208	+/- 20	2	
BUY06CS80A-01(ES)	5205 032 02	SMD-2	60	5.6	175	80	300	250	+/- 20	2	QPL
BUY06CS80A-01(P)		SMD-2	60	5.6	175	80	300	250	+/- 20	2	
BUY15CS23J-01(ES)	5205 031 01	SMD-05	150	55	25	23	93	75	+/- 20	1C	QPL
BUY15CS23J-01(P)		SMD-05	150	55	25	23	93	75	+/- 20	1C	
BUY15CS23K-01(ES)	5205 031 03	TO-257AA	150	55	25	23	93	75	+/- 20	1C	QPL
BUY15CS23K-01(P)		TO-257AA	150	55	25	23	93	75	+/- 20	1C	
BUY15CS45B-01(ES)	5205 031 04	TO-254AA	150	23	75	57	180	208	+/- 20	1C	QPL
BUY15CS45B-01(P)		TO-254AA	150	23	75	57	180	208	+/- 20	1C	
BUY15CS57A-01(ES)	5205 031 02	SMD-2	150	9	160	57	224	250	+/- 20	1C	QPL
BUY15CS57A-01(P)		SMD-2	150	9	160	57	224	250	+/- 20	1C	
BUY25CS12J-01 (ES)	5205 026	SMD-05	250	100	42	12.4	50	75	+/- 20	1C	QPL
BUY25CS12J-01 (P)		SMD-05	250	100	42	12.4	50	75	+/- 20	1C	
BUY25CS12K-01 (ES)	5205 030 01	TO-257AA	250	120	42	12.4	50	75	+/- 20	1C	QPL
BUY25CS12K-01 (P)		TO-257AA	250	120	42	12.4	50	75	+/- 20	1C	
BUY25CS12K-11 (ES)	5205 030 02	TO-257AA	250	120	42	12.4	50	75	+/- 20	1C	QPL
BUY25CS12K-11 (P)		TO-257AA	250	120	42	12.4	50	75	+/- 20	1C	
BUY25CS45B-01 (ES)	5205 030 03	TO-254AA	250	45	100	45	180	208	+/- 20	1C	QPL
BUY25CS45B-01 (P)		TO-254AA	250	45	100	45	180	208	+/- 20	1C	
BUY25CS54A-01 (ES)	5205 027	SMD-2	250	25	180	54	214	250	+/- 20	1C	QPL
BUY25CS54A-01 (P)		SMD-2	250	25	180	54	214	250	+/- 20	1C	
BUY65CS08J-01(ES)	5205 033 01	SMD-05	650	370	23	8	24	75	+/- 20	1C	QPL
BUY65CS08J-01(P)		SMD-05	650	370	23	8	24	75	+/- 20	1C	
BUY65CS28A-01(ES)	5205 033 02	SMD-2	650	116	67	28	80	215	+/- 20	1C	QPL
BUY65CS28A-01(P)		SMD-2	650	116	67	28	80	215	+/- 20	1C	
CHIP L5441A(ES)		Chip of BUY06CS80A	60	5.6	175	80	300		+/- 20	2	
CHIP L5441A(P)		Chip of BUY06CS80A	60	5.6	175	80	300		+/- 20	2	
CHIP L5442A(ES)		Chip of BUY06CS35J	60	28	25	35	100		+/- 20	2	
CHIP L5442A(P)		Chip of BUY06CS35J	60	28	25	35	100		+/- 20	2	
CHIP L5461A(ES)		Chip of BUY15CS57A	150	9	160	57	224		+/- 20	1C	
CHIP L5461A(P)		Chip of BUY15CS57A	150	9	160	57	224		+/- 20	1C	
CHIP L5462A(ES)		Chip of BUY15CS23A	150	55	25	23	93		+/- 20	1C	

Part number	ESCC part number	Package	V_{DSS} (V)	$R_{DS(on)}$ @25°C (mΩ)	Q_g (nC)	I_D @25°C (A)	I_{dpuls} (A)	Power dissipation (W)	Gate voltage	ESD class	ESA qualified
CHIP L5462A(P)		Chip of BUY15CS23A	150	55	25	23	93		+/- 20	1C	
CHIP L5490 (ES)		Chip of BUY25CS12J	250	110	25	12.4	50		+/- 20	1C	
CHIP L5490 (P)		Chip of BUY25CS12J	250	110	25	12.4	50		+/- 20	1C	
CHIP L5491A(ES)		Chip of BUY25CS54A	250	25	150	54	214		+/- 20	1C	
CHIP L5491A(P)		Chip of BUY25CS54A	250	25	150	54	214		+/- 20	1C	
CHIP L5452B(ES)		Chip of BUY65CS08J	650	370	23	8	24		+/- 20	1C	
CHIP L5452B(P)		Chip of BUY65CS08J	650	370	23	8	24		+/- 20	1C	
CHIP L5454A(ES)		Chip of BUY65CS28A	650	116	67	28	80		+/- 20	1C	
CHIP L5454A(P)		Chip of BUY65CS28A	650	116	67	28	80		+/- 20	1C	

Rad hard PowerMOS transistor nomenclature

