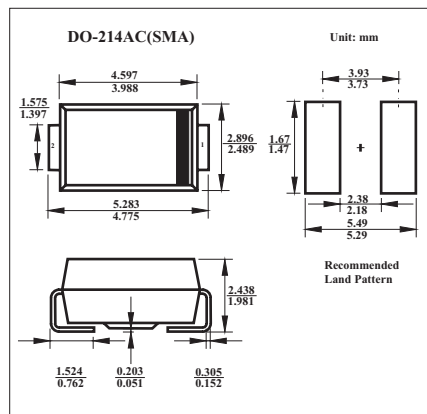


# KS1A THRU KS1D (ES1A THRU ES1D)

## ■ Features

- For surface mount applications
- Low profile package
- Ideally suited for use in very high frequency switching power supplies, inverters and as a free wheeling diodes
- Ultrafast recovery times for high efficiency
- Low forward voltage
- Low leakage current
- Glass passivated chip junction



## ■ Absolute Maximum Ratings TA=25°C

Characteristic	Symbol	KS1A	KS1B	KS1C	KS1D	Unit
Maximum recurrent peak reverse voltage	VRRM	50	100	150	200	V
Maximum RMS voltage	VRMS	35	70	105	140	V
Maximum DC blocking voltage	VDC	50	100	150	200	V
Maximum average forward rectified current at TL=25°C	I(AV)	1				A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	30				A
Maximum instantaneous forward voltage at 1.0A	VF	0.92				V
Maximum DC reverse current at rated TA= 25°C TA= 100°C	IR	5 100				uA
Maximum reverse recovery time *1	trr	15				ns
Reverse recovery time TA= 25°C TA= 100°C *3	trr	25 35				ns
Maximum stored charge TA= 25°C TA= 100°C *3	Qrr	10 25				nC
Typical junction capacitance *2	CJ	7				pF
Maximum thermal resistance *1	R θ JA R θ JL	85 35				°C/W
Operating and storage temperature range	TJ, TSTG	-55 to 150				°C

\*1 Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, Irr=0.25A

\*2 Measured at 1.0MHz and applied reverse voltage of 4.0V

\*3 trr and Qrr measured at: IF=0.6A, VR=30V, di/dt=50A/ms, Irr =10% IRM for measurement of trr