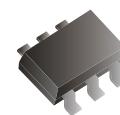


## CDSV6-16-G/4148-G

**Forward Current: 0.15A**  
**Reverse Voltage: 75V**  
**RoHS Device**

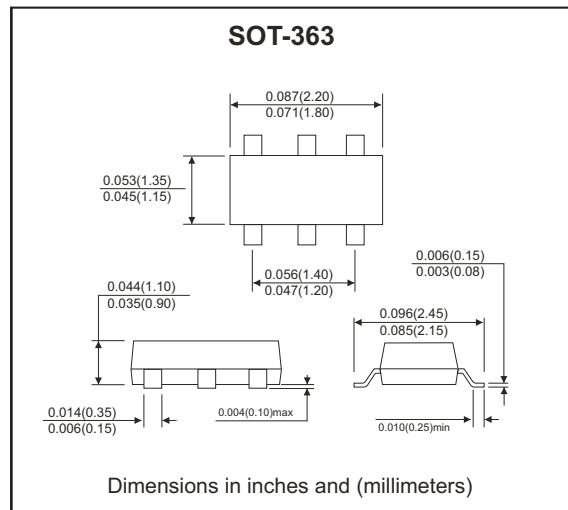
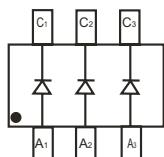


### Features

- Fast switching speed.
- For general purpose switching applications.
- High conductance.

### Marking: KA2

### Diagram:



### Maximum Ratings (at TA=25°C unless otherwise noted)

Parameter	Symbol	Limits		Unit
Non-repetitive peak reverse voltage	V <sub>RM</sub>	100		V
Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	75		V
RMS reverse voltage	V <sub>R(RMS)</sub>	53		V
Forward continuous current	I <sub>FM</sub>	300		mA
Averaged rectified output current	I <sub>O</sub>	150		mA
Peak forward surge current @t=1.0μS @t=1.0S	I <sub>FSM</sub>	2.0 1.0		A
Power dissipation	P <sub>D</sub>	200		mW
Thermal resistance, junction to ambient air	R <sub>θJA</sub>	625		°C/W
Operation and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-65 ~ +150		°C

### Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse breakdown voltage	I <sub>R</sub> =1μA	V <sub>(BR)R</sub>	75			V
Forward voltage	I <sub>F</sub> =1mA I <sub>F</sub> =10mA I <sub>F</sub> =50mA I <sub>F</sub> =150mA	V <sub>F1</sub> V <sub>F2</sub> V <sub>F3</sub> V <sub>F4</sub>			0.715 0.855 1.0 1.25	V
Reverse leakage current	V <sub>R</sub> =20V V <sub>R</sub> =75V	I <sub>R1</sub> I <sub>R2</sub>			25 1	nA μA
Capacitance between terminals	V <sub>R</sub> =0V, f=1.0MHz	C <sub>T</sub>			2	pF
Reverse recovery time	I <sub>F</sub> =I <sub>R</sub> =10mA to I <sub>rr</sub> =0.1×I <sub>R</sub> , R <sub>L</sub> =100Ω	t <sub>rr</sub>			4	nS

## ELECTRICAL CHARACTERISTIC CURVES (CDSV6-16-G/4148-G)

Fig.1 - Forward Characteristics

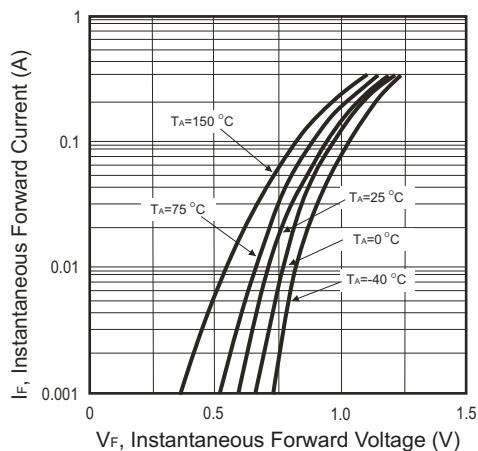


Fig.2 - Reverse Characteristics

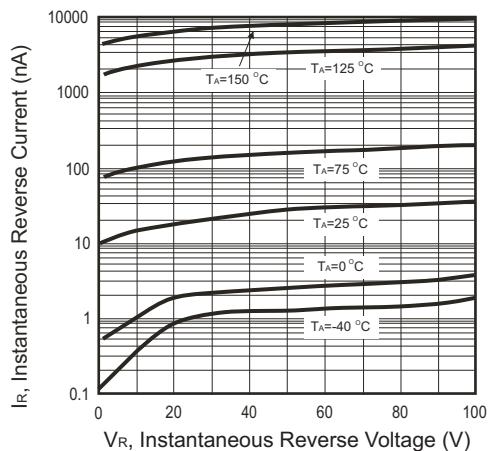


Fig.3 - Capacitance Between Terminals Characteristics

