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SMD Switching Diode Arrays

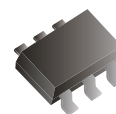


CDSV6-16-G/4148-G

Forward Current: 0.15A

Reverse Voltage: 75V

RoHS Device

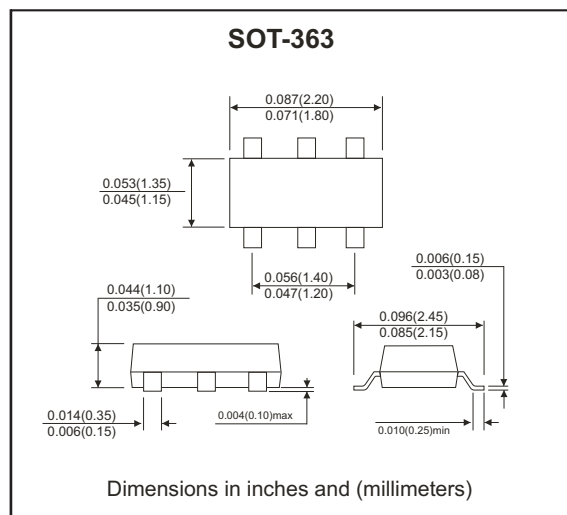
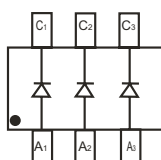


Features

- 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_{RM}	100	V
Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	V_{RRM} V_{RWM} V_R	75	V
RMS reverse voltage	$V_{R(RMS)}$	53	V
Forward continuous current	I_{FM}	300	mA
Averaged rectified output current	I_O	150	mA
Peak forward surge current @t=1.0μS @t=1.0S	I_{FSM}	2.0 1.0	A
Power dissipation	P_D	200	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	625	°C/W
Operation and storage temperature range	T_J, T_{STG}	-65 ~ +150	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse breakdown voltage	$I_R=1\mu A$	$V_{(BR)R}$	75			V
Forward voltage	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$	V_{F1} V_{F2} V_{F3} V_{F4}			0.715 0.855 1.0 1.25	V
Reverse leakage current	$V_R=20V$ $V_R=75V$	I_{R1} I_{R2}			25 1	nA μA
Capacitance between terminals	$V_R=0V, f=1.0MHz$	C_T			2	pF
Reverse recovery time	$I_F=I_R=10mA$ to $I_R=0.1 \times I_R, R_L=100\Omega$	t_{rr}			4	nS

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

Fig.1 - Forward Characteristics

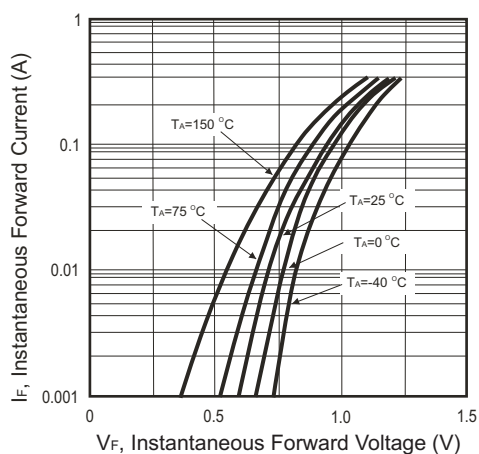


Fig.2 - Reverse Characteristics

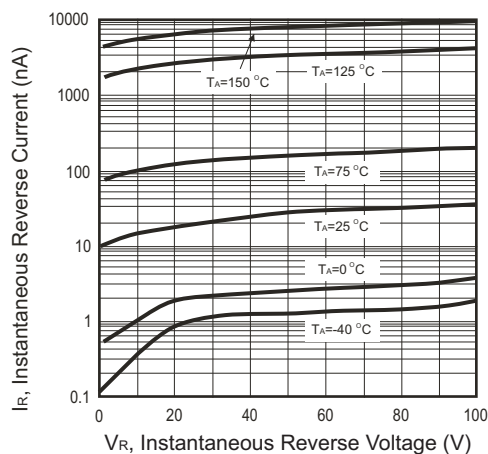


Fig.3 - Capacitance Between Terminals Characteristics

