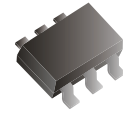


CDSV6-16-G/4148-G

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

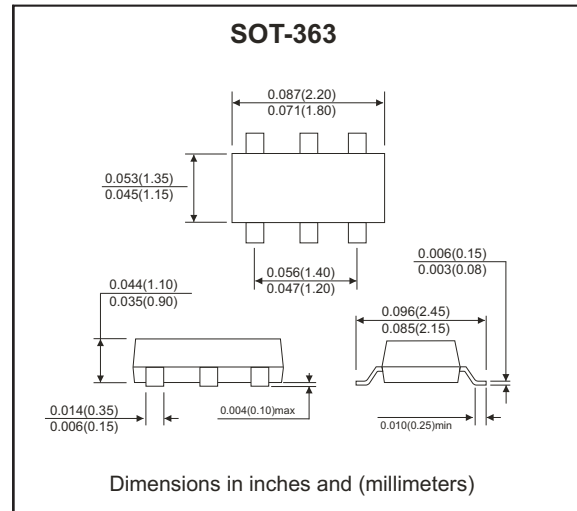
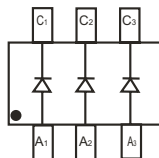


Features

- 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	V_{RRM}	75	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
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	I_{FSM}	@t=1.0μS 2.0	A
		@t=1.0S 1.0	
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	$I_F=1mA$	V_{F1}			0.715	V
	$I_F=10mA$	V_{F2}			0.855	
	$I_F=50mA$	V_{F3}			1.0	
	$I_F=150mA$	V_{F4}			1.25	
Reverse leakage current	$V_R=20V$	I_{R1}			25	nA
	$V_R=75V$	I_{R2}			1	μA
Capacitance between terminals	$V_R=0V, f=1.0MHz$	C_T			2	pF
Reverse recovery time	$I_F=I_{R1}=10mA$ to $I_{R2}=0.1 \times I_{R1}, R_L=100\Omega$	t_r			4	nS

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

Fig.1 - Forward Characteristics

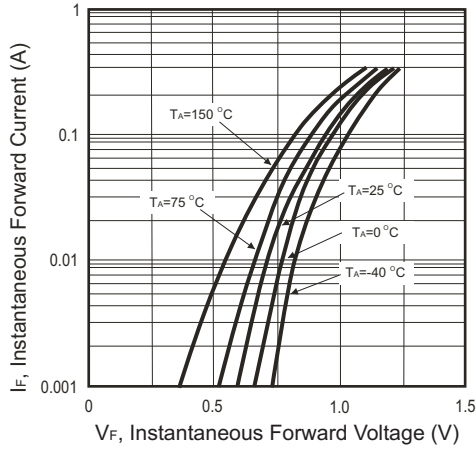


Fig.2 - Reverse Characteristics

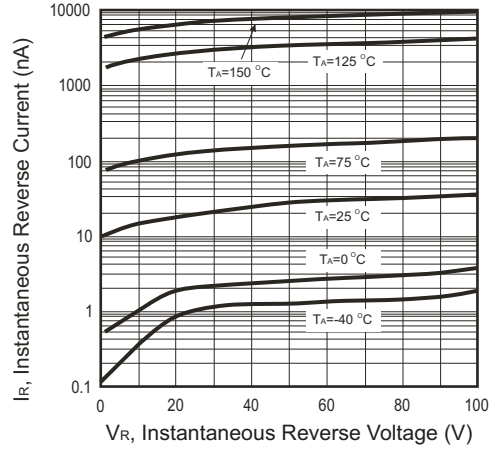


Fig.3 - Capacitance Between Terminals Characteristics

