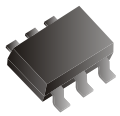
COMCHIP
SMD Diodes Specialist

CDSV6-756-G

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



Features

-Fast switching speed.

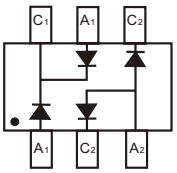
-Ultra small surface mount package.

-For general purpose swicthing applications.

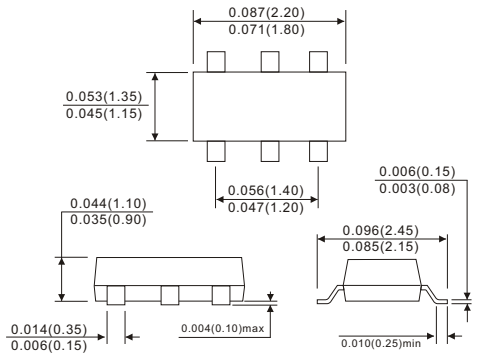
-High conductance.

Marking: KCA

Diagram:



SOT-363



Dimensions in inches and (millimeters)

Maximum Rating (at T_A=25°C unless otherwise noted)

Parameter	Symbol	Limits	Unit
Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	V_{RRM} V_{RWM} V_R	75	V
Forward continuous current	I_{FM}	300	mA
Averaged rectified output current	I_O	150	mA
Non-repetitive 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 junction temperature	T_J	150	°C
Storage temperature range	T_{STG}	-65 ~ +150	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse breakdown voltage	I_R=2.5μA	$V_{(BR)R}$	75			V
Forward voltage	I_F=1mA I_F=10mA I_F=50mA I_F=150mA	V_F			0.715 0.855 1.000 1.250	V
Reverse leakage current	V_R=75V V_R=20V	I_R			2.5 0.025	μA
Junction capacitance	V_R=0V, f=1.0MHz	C_T			2	pF
Reverse recovery time	I_F=I_R=10mA, I_{rr}=0.1×I_R, R_L=100Ω	t_{rr}			4	nS

ELECTRICAL CHARACTERISTIC CURVES (CDSV6-756-G)

Fig.1 Forward Characteristics

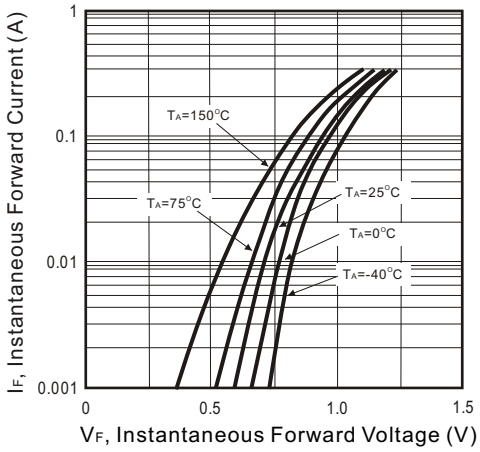


Fig.2 Reverse Characteristics

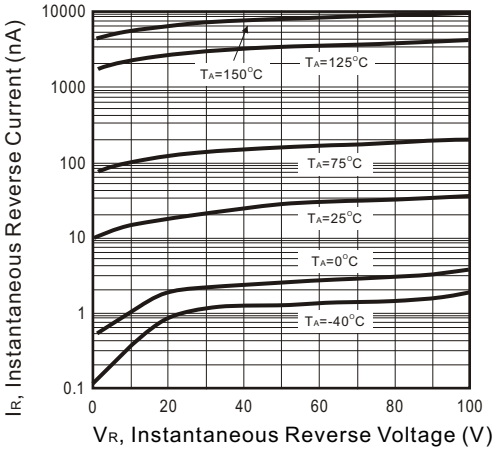


Fig.3 Capacitance Between Terminals Characteristics

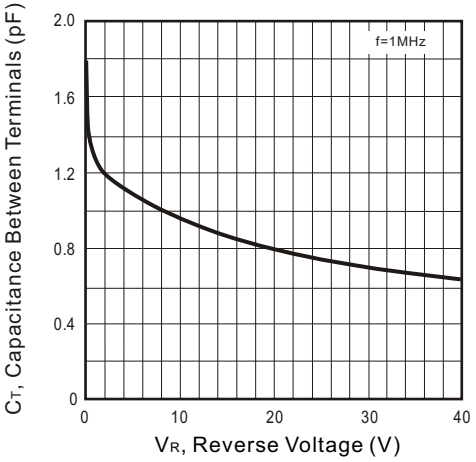


Fig.4 Power Derating Curve