

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

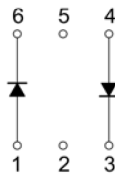
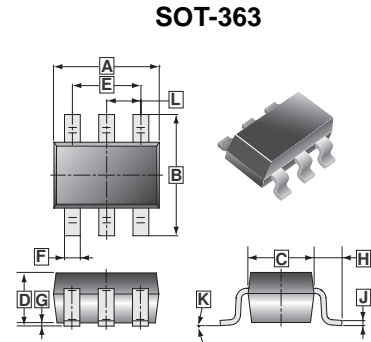
- Low forward voltage drop
- Fast switching
- PN junction guard ring for transient and ESD protection

MARKING

KLD

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-363	3K	7 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.80	2.20	G	0.100 REF.	
B	1.80	2.45	H	0.525 REF.	
C	1.15	1.35	J	0.08	0.25
D	0.80	1.10	K	8°	
E	1.10	1.50	L	0.650 TYP.	
F	0.10	0.35			

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

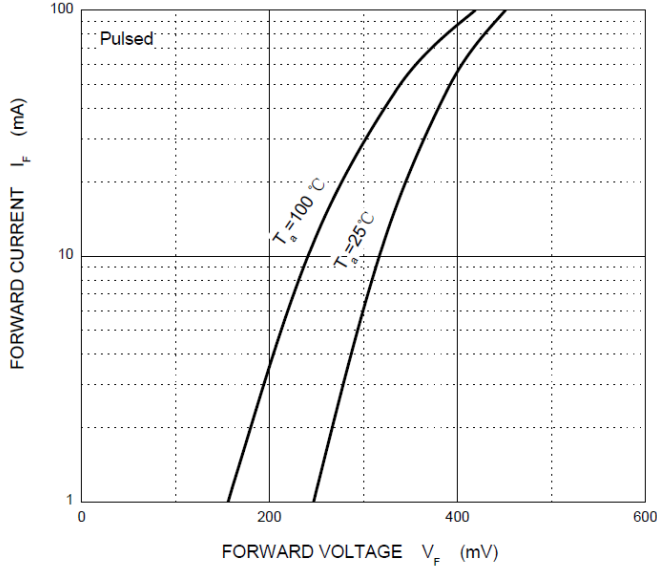
Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Peak Working Reverse Voltage	V_{RWM}	30	V
DC Blocking Voltage	V_R	30	V
Continuous Forward Current	I_F	200	mA
Repetitive Peak Forward Current @ $t_p < 8.3\text{ms}$, $D < 2\%$	I_{FRM}	300	mA
Non-repetitive Peak Forward Current @ $t=8.3\text{ms}$	I_{FSM}	600	mA
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Junction and Storage temperature	T_J, T_{STG}	125, -55~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

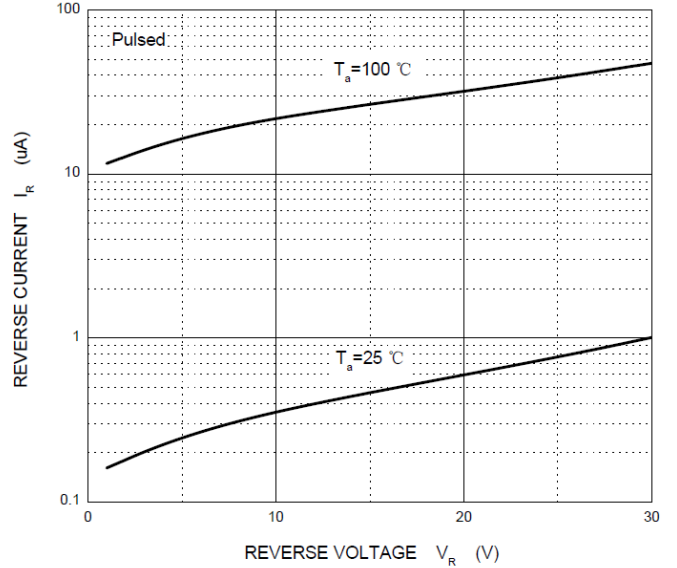
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)}$	30	-	-	V	$I_R=100\mu\text{A}$
Forward Voltage	V_F	-	-	0.32	V	$I_F=1\text{mA}$
		-	-	0.4		$I_F=10\text{mA}$
		-	-	0.5		$I_F=30\text{mA}$
		-	-	1		$I_F=100\text{mA}$
Reverse Current	I_R	-	-	2	μA	$V_R=25\text{V}$
Total Capacitance	C_T	-	10	-	pF	$V_R=0$, $f=1\text{MHz}$
Reverse Recovery Time	T_{RR}	-	-	5	ns	$I_F=I_R=10\text{mA}$, $I_{RR}=0.1 \times I_R$, $R_L=100\Omega$

CHARACTERISTICS CURVE

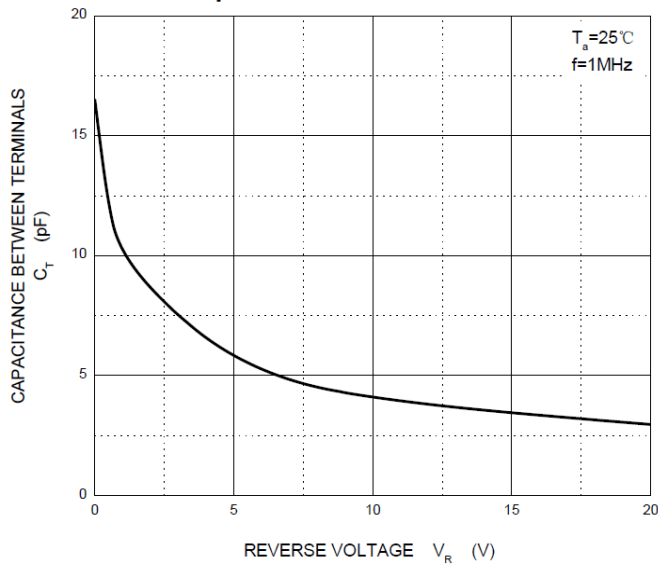
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

