

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

## FEATURES

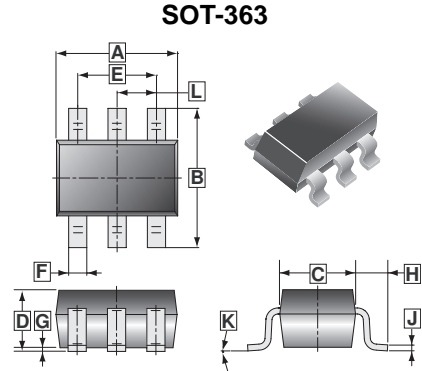
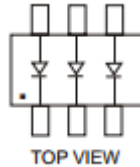
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching
- Low Leakage Current

## MARKING



## 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<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Peak Repetitive Peak reverse voltage	V <sub>RRM</sub>	40	V
Working Peak Reverse Voltage	V <sub>RWM</sub>	40	V
DC Blocking Voltage	V <sub>R</sub>	40	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	28	V
Average Rectified Current	I <sub>O</sub>	175	mA
Forward Current Surge Peak @60Hz, 1 cyc, pre diode	I <sub>FSM</sub>	1	A
Power Dissipation	P <sub>D</sub>	200	mW
Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	500	°C / W
Storage temperature	T <sub>J</sub> , T <sub>STG</sub>	125, -55~150	°C

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Teat Conditions
Reverse breakdown voltage	V <sub>(BR)R</sub>	40	-	-	V	I <sub>R</sub> =100μA
Forward voltage	V <sub>F</sub>	-	-	0.37	V	I <sub>F</sub> =20mA
		-	-	0.5		I <sub>F</sub> =100mA
Reverse current	I <sub>R</sub>	-	-	2	uA	V <sub>R</sub> =10V
		-	-	5		V <sub>R</sub> =30V
Capacitance between terminals	C <sub>T</sub>	-	50	-	pF	V <sub>R</sub> =0, f=1MHz
Reveres recovery time	t <sub>rr</sub>	-	10	-	nS	I <sub>F</sub> =I <sub>R</sub> =200mA, I <sub>RR</sub> =0.1X I <sub>R</sub> , R <sub>L</sub> =100Ω

**RATINGS AND CHARACTERISTIC CURVES**

