

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

FEATURES

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- High Conductance Power dissipation

MECHANICAL DATA

- Case: SOT-363, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagrams Below
- Weight: 0.006 grams (approx.)
- Mounting Position: Any

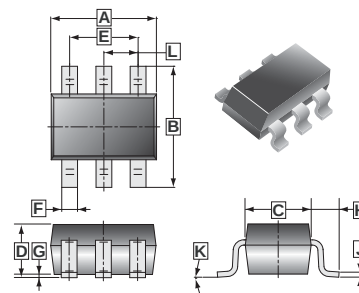
MARKING CODE

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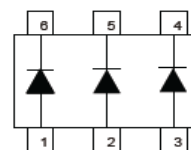
PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-363	3K	7 inch

SOT-363



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.00	2.20	G	0.100 REF.	
B	2.15	2.45	H	0.525 REF.	
C	1.15	1.35	J	0.08	0.15
D	0.90	1.10	K	8°	
E	1.20	1.40	L	0.650 TYP.	
F	0.15	0.35			



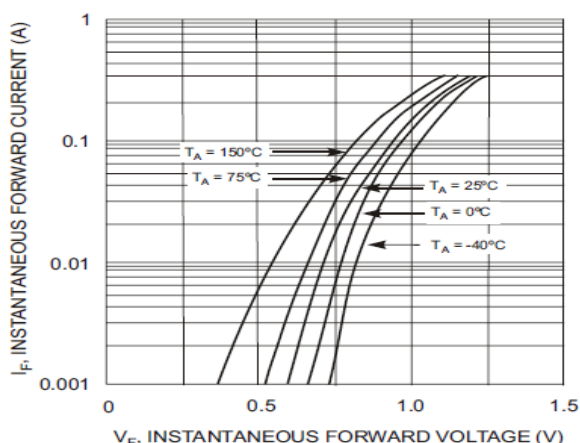
MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter		Symbol	Ratings	Unit
Non-Repetitive Peak Reverse Voltage		V_{RM}	100	V
Working Peak Reverse Voltage		V_{RWM}	75	V
DC Blocking Voltage		V_R	75	V
RMS Reverse Voltage		$V_{R(RMS)}$	53	V
Average Rectified out Current		I_O	150	mA
Peak Forward Surge Current	@T=1 μ s	I_{FSM}	2	A
	@T=1s		1	
Power Dissipation		P_D	200	mW
Thermal Resistance Junction to Ambient Air		$R_{\theta JA}$	625	$^{\circ}\text{C} / \text{W}$
Storage Temperature		T_J, T_{STG}	150, -55~150	$^{\circ}\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)}$	75	-	V	$I_R=10\mu\text{A}$
Forward Voltage	V_F	-	0.715	V	$I_F=1\text{mA}$
		-	0.855		$I_F=10\text{mA}$
		-	1		$I_F=50\text{mA}$
		-	1.25		$I_F=150\text{mA}$
Reverse Current	I_R	-	1	μA	$V_R=75\text{V}$
		-	25	nA	$V_R=20\text{V}$
Capacitance between Terminals	C_T	-	2	pF	$V_R=0\text{V}$, $f=1\text{MHz}$
Reverse Recovery Time	T_{RR}	-	4	ns	$I_F=I_R=10\text{mA}$, $I_{rr}=0.1 \times I_R$, $R_L=100\Omega$

RATINGS AND CHARACTERISTIC CURVES



Fi . 1 Forward Characteristics

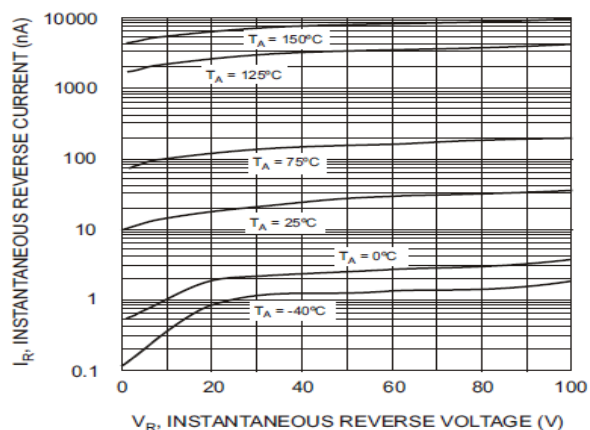
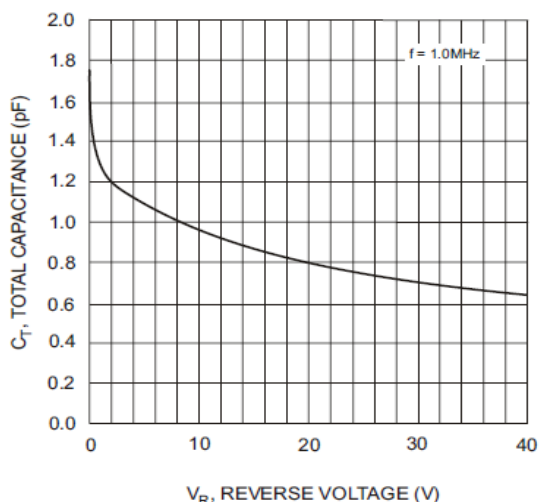
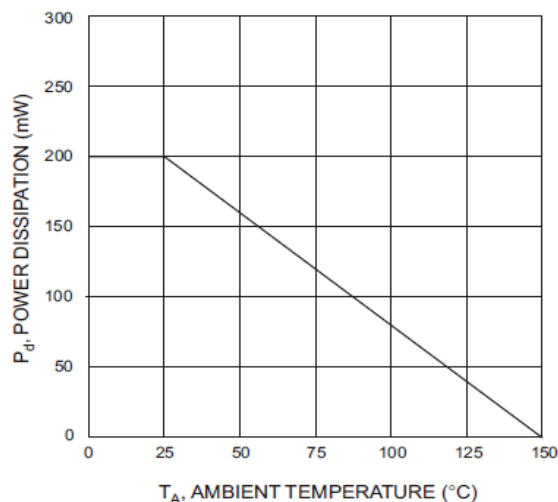


Fig. 2 Typical Reverse Characteristics



Fi . 3 Typical Capacitance vs. Reverse Voltage



Fi . 4 Power Derating Curve