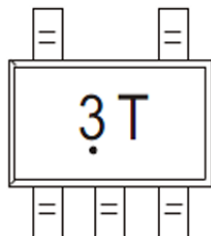


Features

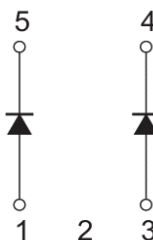
- Low current rectification
- High reliability



Marking and pin assignment



SOT-353 top view



Schematic diagram



Halogen-Free

Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Symbol	Parameter	Value	Unit
V_{RM}	Peak reverse voltage	45	V
V_R	DC reverse	40	V
I_{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	1	A
I_O	Mean rectifying current	0.1	A
P_D	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	667	°C/W
T_J	Operating Junction Temperature Range	-40~+125	°C
T_{STG}	Storage Temperature Range	-55~+150	°C

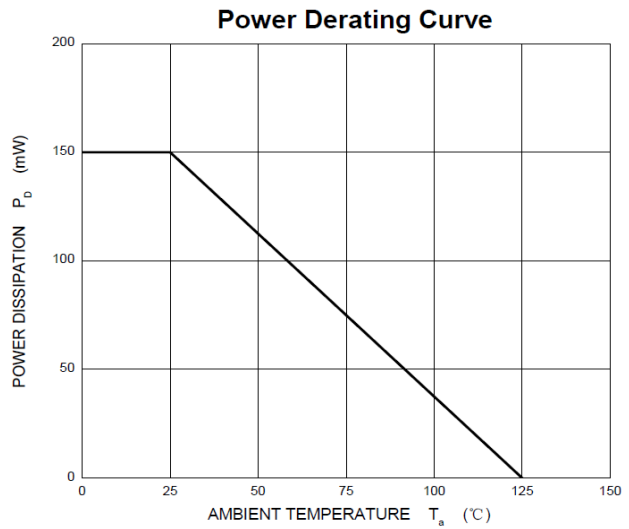
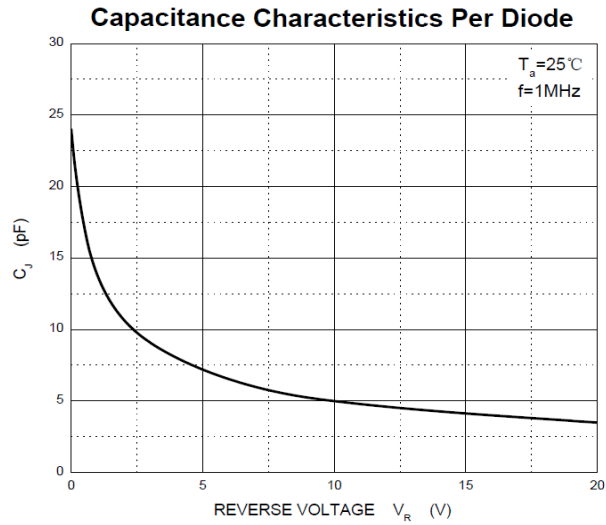
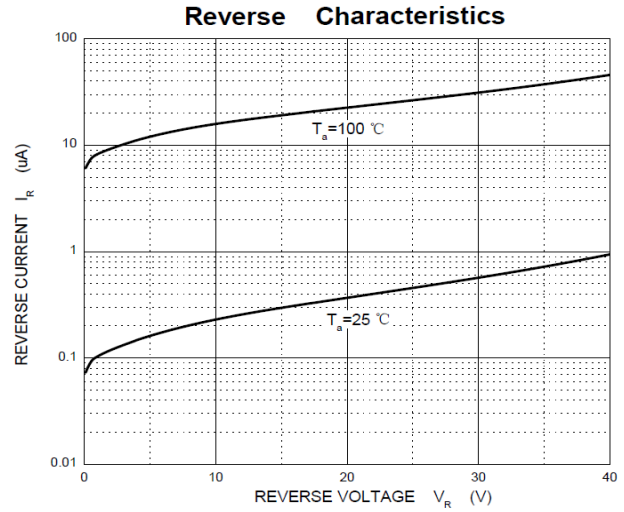
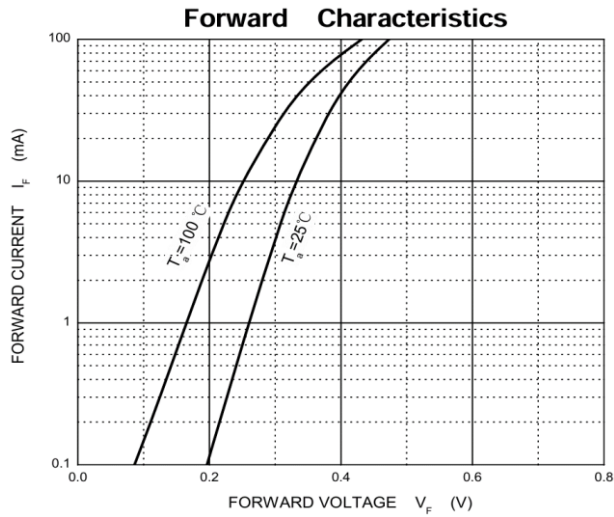
Electrical Ratings @Ta=25°C

Symbol	Parameter	Condition	Min	Typ	Max	Unit
V_F	Forward voltage	$I_F=10mA$	--	--	450	mV
		$I_F=100mA$	--	--	600	
I_R	Reverse current	$V_R=10V$	--	--	1	uA
		$V_R=40V$	--	--	5	
C_T	Capacitance between terminals	$V_R=0V$	--	--	25	pF
		$V_R=10V, f=1MHz$	--	6	--	

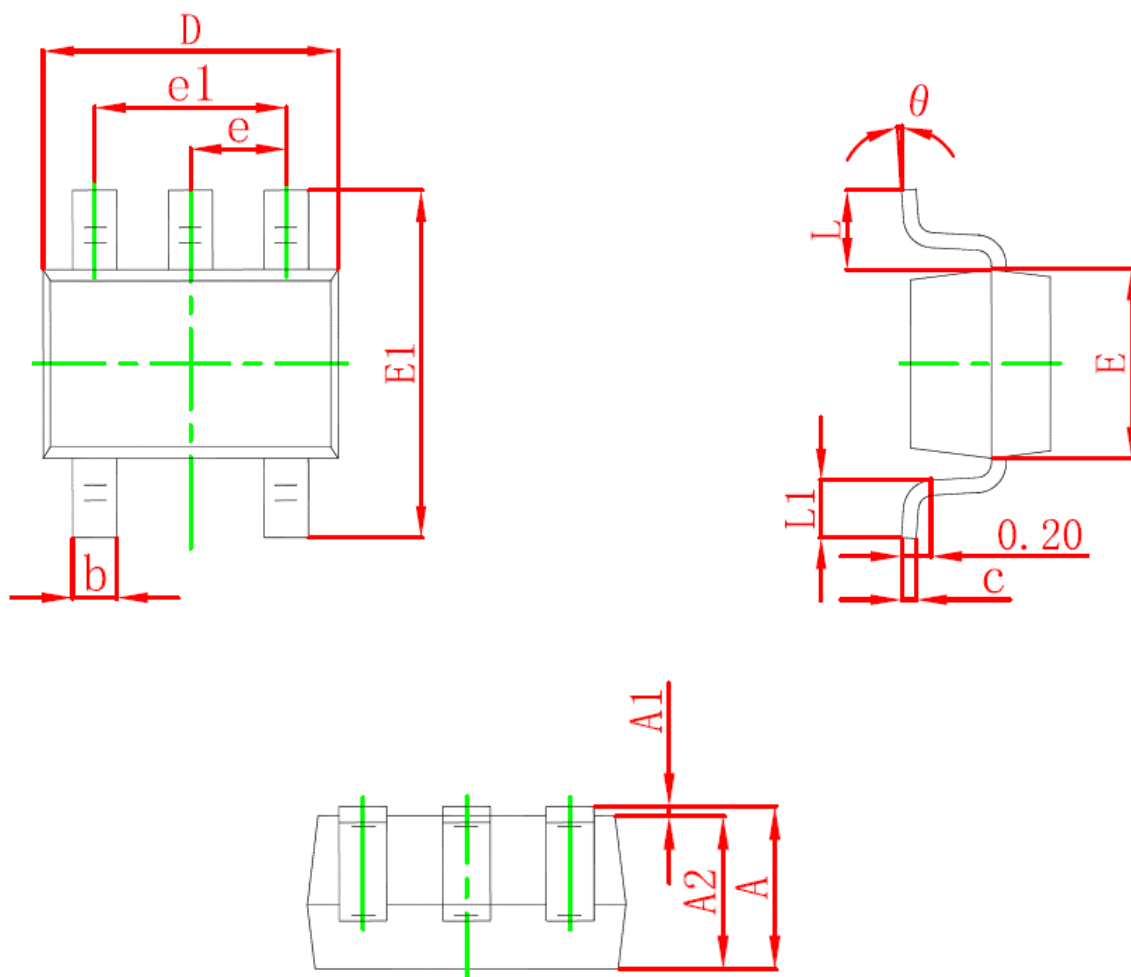
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
RB480K	SOT-353	3T	3,000	45,000	180,000	7"reel

Typical Operating Characteristics



SOT-353 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.010	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
e	0.650TYP		0.026TYP	
e1	1.200	1.400	0.047	0.055
L	0.525REF		0.021REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°