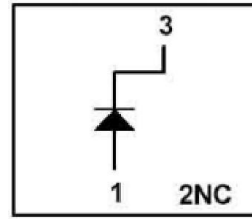


### Features

- Fast Switching Speed
- Surface Mount Package
- For General Purpose Switching Applications
- Lead Free/RoHS Compliant



Schematic Diagram



SOT-23

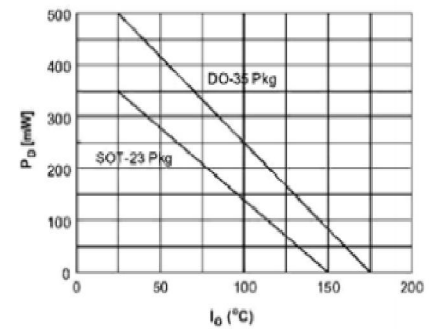
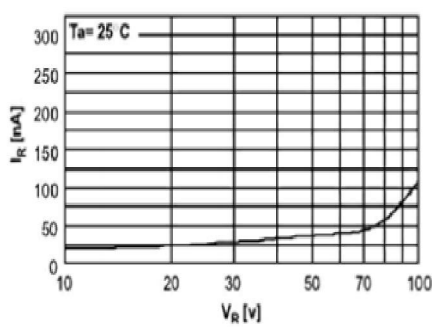
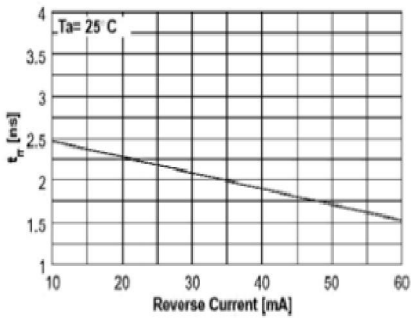
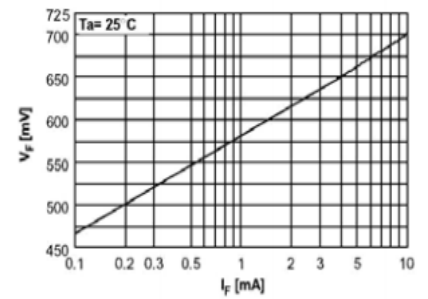
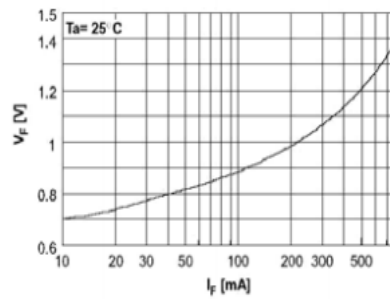
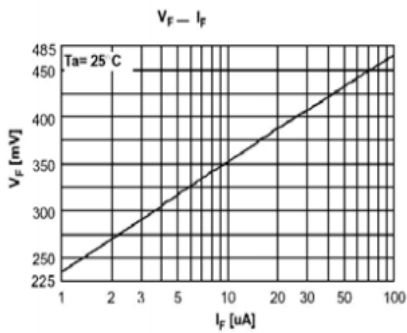
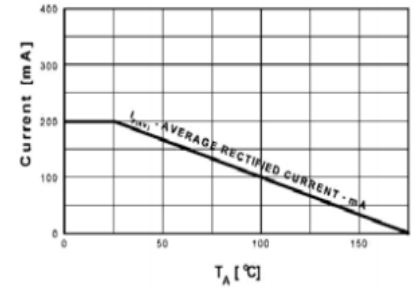
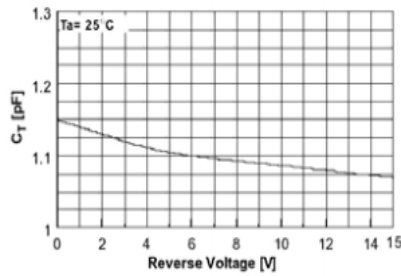
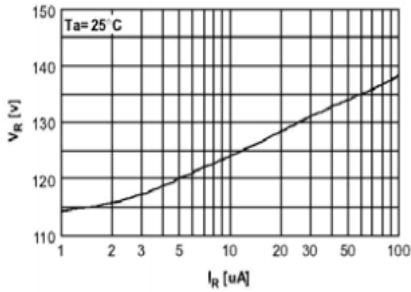
### Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	85	V
Average Forward Current	$I_{F(AV)}$	200	mA
Non-Repetitive Peak Forward Surge Current	$I_{FSM(1)}$ (PW=1s)	1.0	A
Non-Repetitive Peak Forward Surge Current	$I_{FSM(2)}$ (PW=1ms)	2.0	A
Power Dissipation	$P_D$	350	mW
Thermal Resistance from Junction to Ambient	$R_{THJA}$	357	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	$^\circ\text{C}$

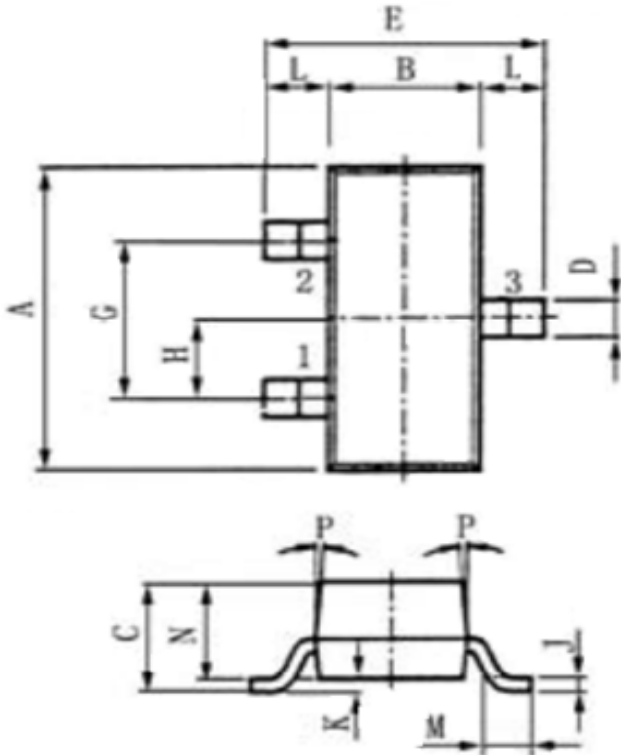
### Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Conditions	MIN	MAX	Unit
Reverse Voltage Leakage Current	$I_R$	$V_R=75\text{V}$		1.0	uA
		$V_R=25\text{V } T_A=150^\circ\text{C}$		30	
		$V_R=75\text{V } T_A=150^\circ\text{C}$		50	
Forward Voltage	$V_F$	$I_F=1.0\text{mA}$		715	mV
		$I_F=10\text{mA}$		855	
		$I_F=50\text{mA}$		1.0	V
		$I_F=150\text{mA}$		1.25	V
Diode Capacitance	$C_d$	$V_R=0\text{V}, f=1\text{MHz}$		2.0	pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=10\text{mA}, I_{RR}=1.0\text{mA}, R_L=100\ \Omega$		6.0	ns

## Typical Electrical Characteristic Curves



## Package Outline Dimensions SOD-23 (in mm)



A	2.9±0.02
B	1.30+0.20/-0.15
C	1.30MAX
D	0.40+0.15/-0.05
E	2.40+0.30/-0.20
G	1.9±0.2
H	0.95±0.1
J	0.10+0.10/-0.05
K	0.00-0.10
L	0.55±0.1
M	0.2MIN
N	1.00+0.20/-0.10
P	7"