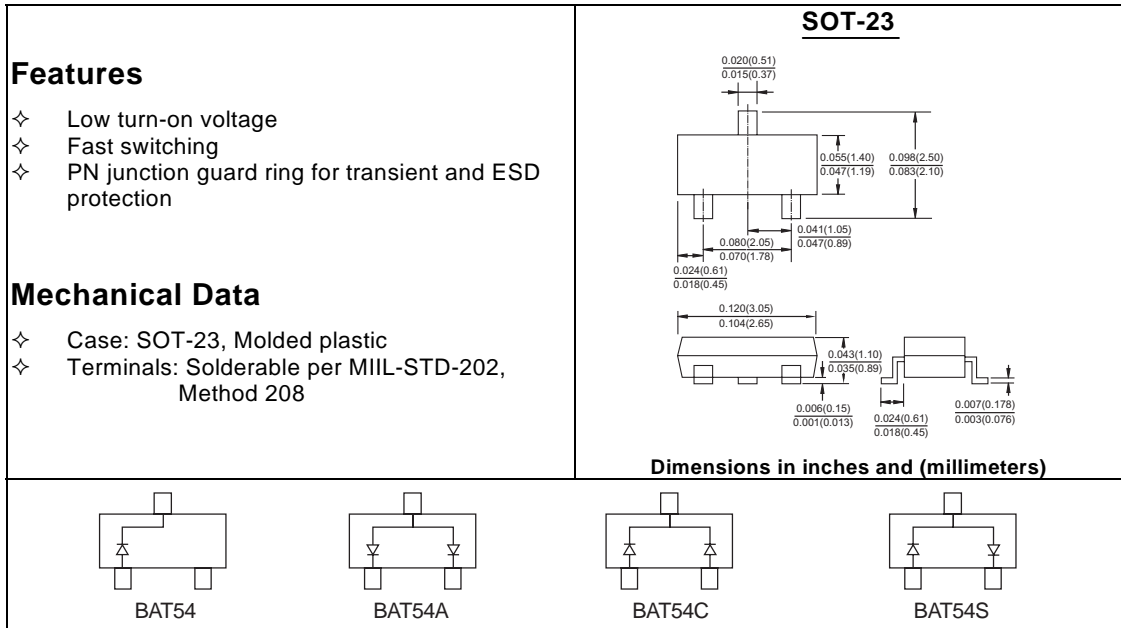


## Surface Mount Schottky Barrier Diode



### Maximum Ratings $T_A=25^\circ\text{C}$ unless otherwise specified

Type Number	Symbol	Value	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_F$	200	mA
Repetitive Peak Forward Current	$I_{FM}$	300	mA
Forward Surge Current @ $t=1.0\text{s}$	$I_{FSM}$	600	mA
Power Dissipation (Note 1)	$P_d$	200	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 to + 125	$^\circ\text{C}$

### Electrical Characteristics

Type Number	Symbol	Min	Typ	Max	Units
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	30	-	-	V
Reverse Leakage Current (Note 1) $V_R=25\text{V}$	$I_R$	-	-	2.0	$\mu\text{A}$
Forward Voltage (Note 1) $I_F=0.1\text{mA}$ $I_F=1.0\text{mA}$ $I_F=10\text{mA}$ $I_F=30\text{mA}$ $I_F=100\text{mA}$	$V_F$	-	-	240 320 400 500 1000	mV
Junction Capacitance $V_R=0, f=1.0\text{MHz}$	$C_j$	-	-	10	pF
Reverse Recovery Time (Note 2)	$t_{rr}$	-	-	5.0	nS

Notes: 1. Short Duration Pulse Test used to Minimize Self-Heating Effect.

2. Reverse Recovery Test Conditions:  $I_F=10\text{mA}$  through  $I_R=10\text{mA}$  to  $I_R=1.0\text{mA}$ ,  
 $R_L=100\Omega$ .

## RATINGS AND CHARACTERISTIC CURVES (BAT54 / A / C / S)

FIG.1- POWER DERATING CURVE

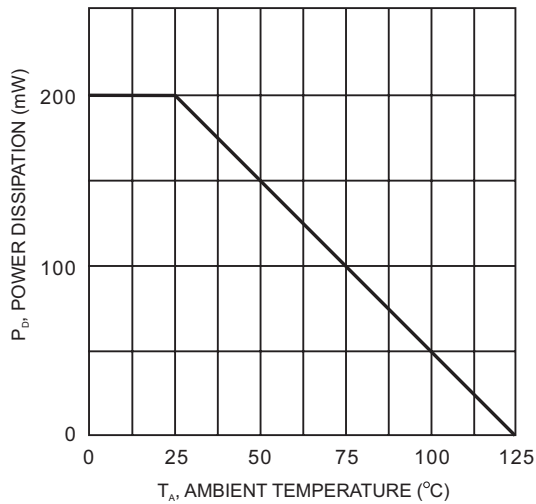


FIG.2- TYPICAL FORWARD CHARACTERISTICS

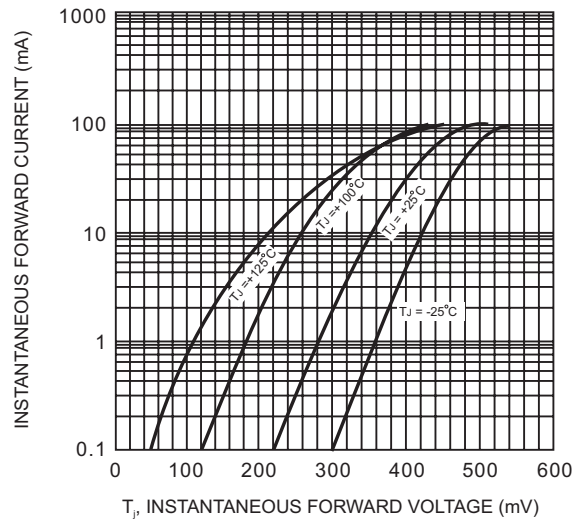
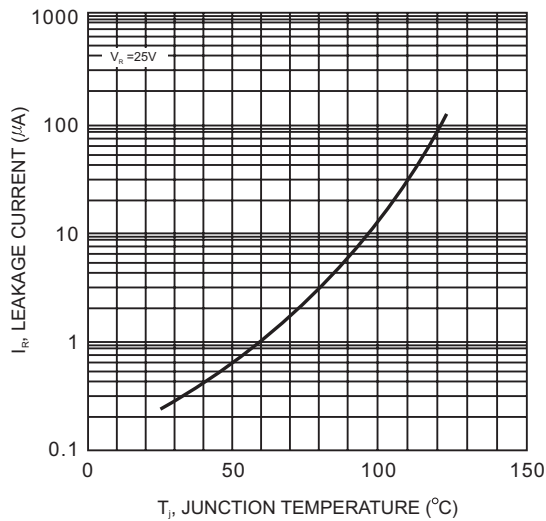


FIG.3- TYPICAL REVERSE CHARACTERISTICS



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