



**FUKUCOM COMPANY LTD.**

**福 靈 有 限 公 司**

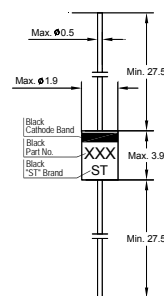
FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

## BAT42, BAT43

### SCHOTTKY BARRIER DIODES

for general purpose applications



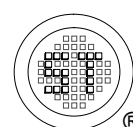
Glass Case DO-35  
Dimensions in mm

#### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Forward Continuous Current	$I_F$	200	mA
Repetitive Peak Forward Current (at $t_p < 1\text{ s}$ )	$I_{FRM}$	500	mA
Surge Forward Current (at $t_p < 10\text{ ms}$ )	$I_{FSM}$	4	A
Power Dissipation	$P_{tot}$	200	mW
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 65 to + 150	$^\circ\text{C}$

#### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 200\text{ mA}$ at $I_F = 10\text{ mA}$ at $I_F = 50\text{ mA}$ at $I_F = 2\text{ mA}$ at $I_F = 15\text{ mA}$	BAT42 $V_F$	-	-	1	V
	BAT42 $V_F$	-	-	0.4	V
	BAT43 $V_F$	0.26	-	0.65	V
	BAT43 $V_F$	-	-	0.33	V
	BAT43 $V_F$	-	-	0.45	V
Reverse Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	$V_{(BR)R}$	30	-	-	V
Reverse Leakage Current at $V_R = 25\text{ V}$	$I_R$	-	-	0.5	$\mu\text{A}$
Diode Capacitance at $V_R = 1\text{ V}$ , $f = 1\text{ MHz}$	$C_{tot}$	-	7	-	pF
Reverse Recovery Time at $I_F = I_R = 10\text{ mA}$ , $I_{rr} = 0.1 \times I_R$ , $R_L = 100\text{ }\Omega$	$t_{rr}$	-	-	5	ns



Dated : 06/03/2009



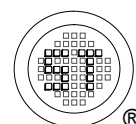
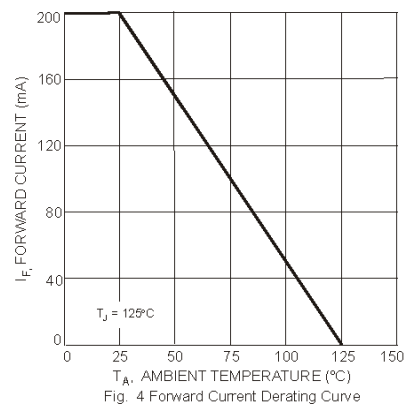
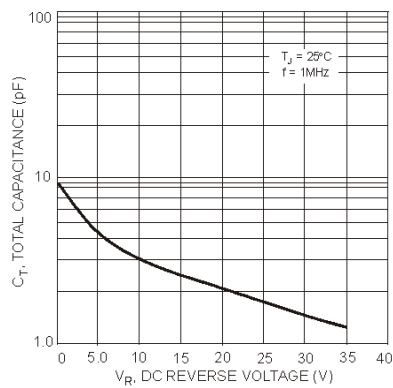
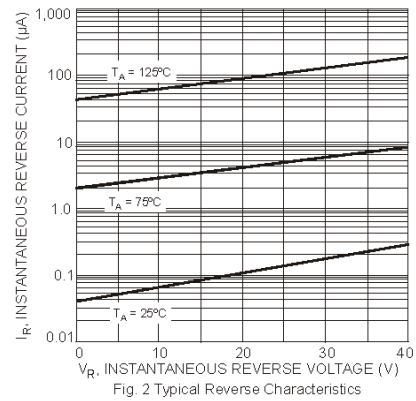
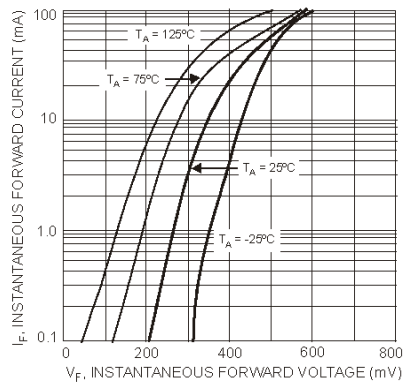
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