



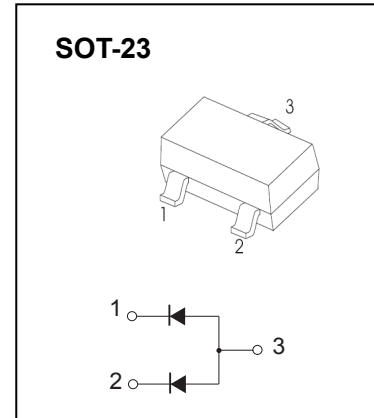
**SOT-23 Plastic-Encapsulate Diodes**

**MC2836 SWITCHING DIODE**

**FEATURES**

- High speed switching
- Low capacitance

**MARKING:A41**



**Maximum Ratings @Ta=25°C**

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	75	V
DC Blocking Voltage	$V_R$	50	V
Average Rectified Output Current	$I_O$	150	mA
Power Dissipation	$P_D$	150	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	833	°C/W
Junction Temperature	$T_J$	150	°C
Storage Temperature Range	$T_{STG}$	-55~+150	°C

**Electrical Characteristics @Ta=25°C**

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	$V_{F1}$	$I_F=10mA$			1.0	V
	$V_{F2}$	$I_F=50mA$			1.1	V
	$V_{F3}$	$I_F=100mA$			1.2	V
Reverse current	$I_R$	$V_R=50V$			0.1	uA
Reverse recovery time	$t_{rr}$	$I_F=10mA, V_R=6V, R_L=100\Omega$ $I_{rr}=0.1 \cdot I_R$			4	ns
Capacitance between terminals	$C_T$	$V_R=0, f=1MHz$			4	pF

# Typical Characteristics

# MC2836

