



TAYCHIPST

Schottky Barrier Rectifier

SDB10A40

40V 1.0A

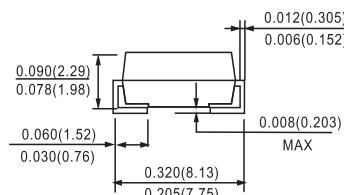
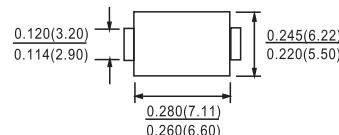
FEATURES

- Low forward drop voltage and low reverse leakage current
- Low power rectified
- “Green” device and RoHS compliant device
- Available in full lead (Pb)-free device

Applications

- Portable equipment battery applications
- Switching mode power supplies applications

DO-214AB(SMC)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**Absolute Maximum Ratings** ($T_{amb}=25^{\circ}C$, Unless otherwise specified)

Characteristic	Symbol	Ratings	Unit
Peak reverse voltage	V_{RM}	40	V
Reverse voltage	V_R	40	V
Forward current	I_F	1	A
Non-repetitive peak forward current	I_{FSM}	30	A
Junction temperature	T_j	150	$^{\circ}C$
Storage temperature	T_{stg}	-55~150	$^{\circ}C$

Electrical Characteristics ($T_{amb}=25^{\circ}C$, Unless otherwise specified)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage ¹⁾	V_F ¹⁾	$I_F=1A$	-	0.5	0.55	V
Reverse leakage current ²⁾	I_R ²⁾	$V_R=40V$	-	-	200	uA
Total capacitance	C_T	$V_R=10V, f=1MHz$	-	50	-	pF

¹⁾ Pulse test: $t_p \leq 380\mu s$, Duty cycle $\leq 2\%$ ²⁾ Pulse test: $t_p \leq 5ms$, Duty cycle $\leq 2\%$



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RATINGS AND CHARACTERISTIC CURVES SDB10A40

Fig. 1 Forward Characteristics

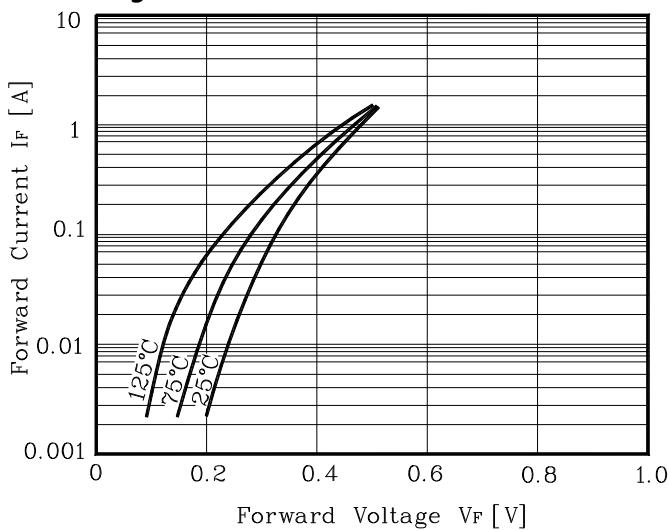


Fig. 2 Reverse Characteristics

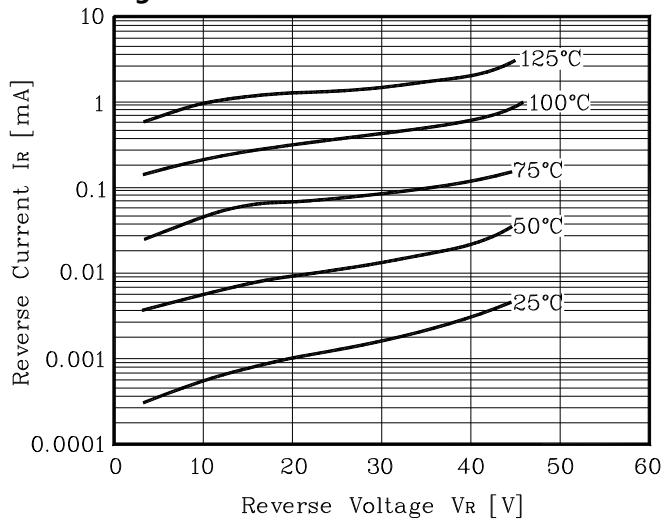


Fig. 3 Total Capacitance

