



Transys
Electronics

LIMITED

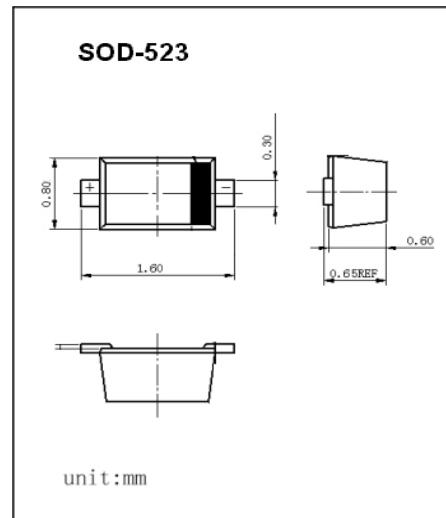
SOD-523 Plastic-Encapsulated Diodes

BAS516 Switching Diodes

FEATURES

- Small surface mounting type
- High switching speed

Marking: 61



Maximum Ratings and Electrical Characteristics, Single Diode @ $T_A=25^\circ\text{C}$

Parameter	Symbol	Limits		Unit
DC reverse voltage	V_R	75		V
Mean rectifying current	I_O	250		mA
Peak forward surge current	I_{FSM}	0.5		A
Junction temperature	T_j	150		$^\circ\text{C}$
Storage temperature	T_{stg}	-65~+150		$^\circ\text{C}$

Electrical Ratings @ $T_A=25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F			0.715 0.855 1 1.25	V	$I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$
Reverse current	I_R			0.03 1	μA	$V_R=25\text{V}$ $V_R=75\text{V}$
Capacitance between terminals	C_T			1	pF	$V_R=0, f=1\text{MHz}$
Reverse recovery time	t_{rr}			4	ns	$I_F=10\text{mA}, R_L=100\Omega$