

SCHOTTKY BARRIER DIODE		SOD-523 Plastic-Encapsulate Diode			
<u>SOD-523</u>  Marking :S4		Features Collector current I_F: 0.35 A Collector-base voltage V_R: 40 V Operating and storage junction temperature range T_J, T_{stg}: -55°C to +150°C			
ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}\text{C}$ unless otherwise specified)					
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1\text{mA}$	40		V
Reverse voltage leakage current	I_R	$V_R=40\text{V}$		0.035	mA
Forward voltage	V_F	$I_F=0.1\text{A}$ $I_F=0.35\text{A}$		0.45 0.6	V
Diode capacitance	C_D	$V_R=4\text{V}, f=1\text{MHz}$		120	pF

Typical Characteristics

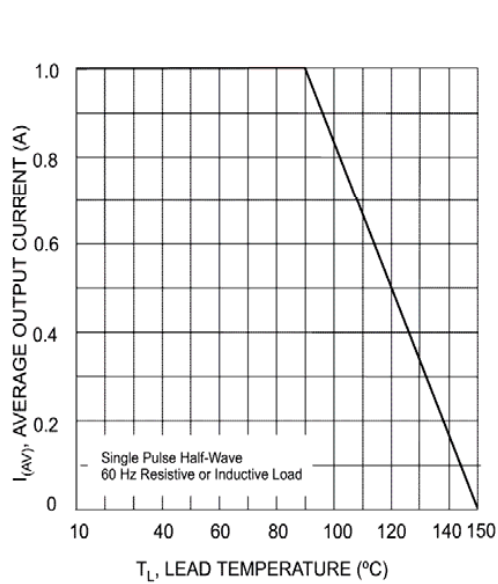


Fig. 1 Forward Current Derating Curve

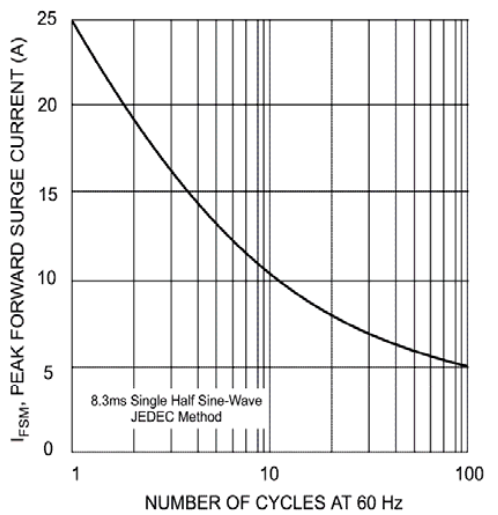
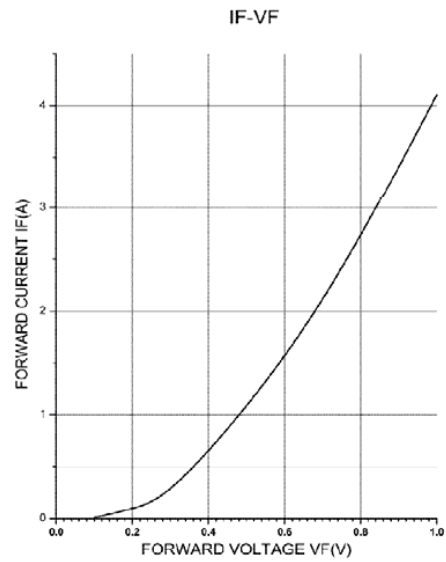


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

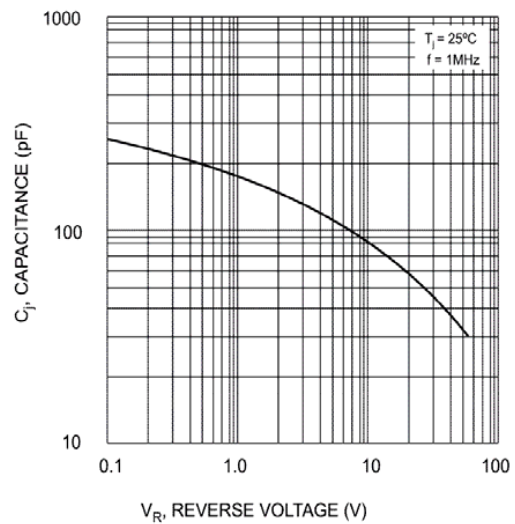


Fig. 4 Typical Junction Capacitance