



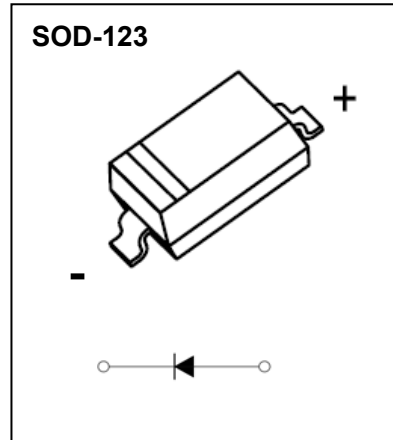
SOD-123 Plastic-Encapsulate Diodes

ES0406D1 FAST RECOVERY DIODE

FEATURES

- High Frequency Rectification
- Surface Mount Package Ideally Suited for Automatic Insertion

MARKING: E6D



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage	600	V
V _{RWM}	Working Peak Reverse Voltage		
V _{R(RMS)}	RMS Reverse Voltage	420	V
I _O	Average Rectified Output Current	400	mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current @t ≤ 8.3ms	16	A
P _D	Power Dissipation	415	mW
R _{θJA}	Thermal Resistance from Junction to Ambient	301	°C/W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse current	I _R	V _R =600V			10	μA
Forward voltage	V _F	I _F =0.4A			1.32	V
Reverse recovery time	t _{rr}	I _F = 500mA, I _R =1A, I _{rr} =0.25A			40	ns
Total capacitance	C _{tot}	V _R =0V,f=1MHz		15		pF

Typical Characteristics

ES0406D1

