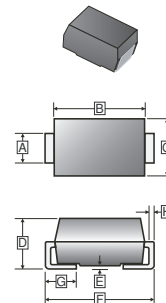


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

SMA

FEATURES

- Low profile package
- Ideal for automated placement
- Low reverse current
- Fast reverse recovery time
- Component in accordance to RoHS 2002/95/EC



MECHANICAL DATA

- Case: DO-214AC (SMA)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead Free Plating (Tin Finish)
Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.201 grams (approximately)

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.24	1.65	E	-	0.203
B	3.99	4.60	F	4.80	5.28
C	2.50	2.90	G	0.76	1.52
D	1.98	2.44	H	0.15	0.305

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

PARAMETER		SYMBOL	PART NUMBERS							UNIT
			SEF 201A	SEF 202A	SEF 203A	SEF 204A	SEF 205A	SEF 206A	SEF 207A	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current		I _F	2.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	50.0							A
Maximum Instantaneous Forward Voltage @ 2.0A		V _F	1.0			1.3	1.7			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	5.0							μA
	T _A =100°C		100							
Maximum Reverse Recovery Time ²		T _{RR}	50				75			nS
Typical Junction Capacitance ¹		C _J	30				20			pF
Typical Thermal Resistance		R _{θJA}	38							°C/W
Operating & Storage Temperature		T _J , T _{STG}	-55~150, -55~150							°C

Note: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC
2. Measured with $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{RR}=0.25\text{A}$

RATINGS AND CHARACTERISTIC CURVES (SEF201A THRU SEF207A)

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

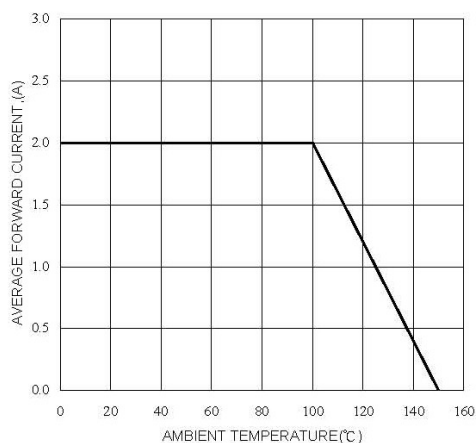


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

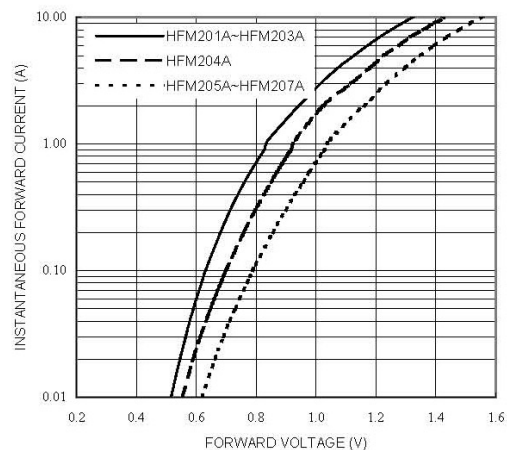


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

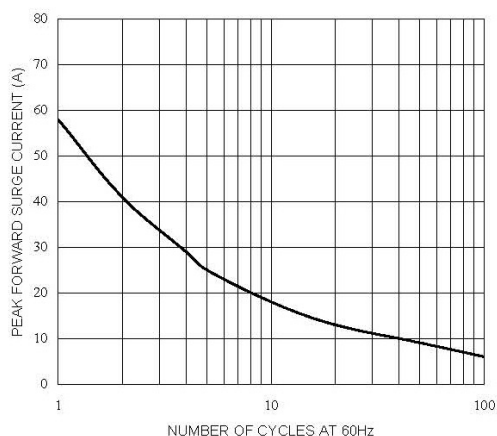


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

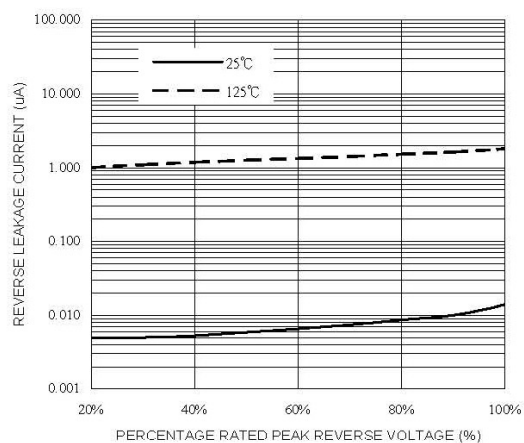


FIG. 5-TYPICAL JUNCTION CAPACITANCE

