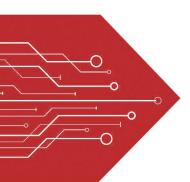
## MSKSEMI















**ESD** 

TVS

TSS

MOV

GDT

**PLED** 

# Broduct data sheet





**SMA** 

#### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
   Super fast switching for high efficiency
- ◆ Low reverse leakage
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

#### **MECHANICAL DATA**

- ◆ Case: JEDEC DO-214AC molded plastic body
- **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
   Mounting Position: Any
   Weight: 0.003 ounce, 0.093 grams

   0.004 ounce, 0.111 grams SMA(H)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

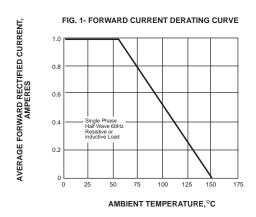
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

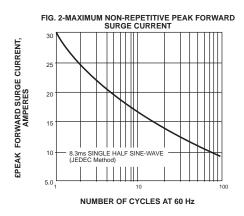
	SYMBOLS	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	150	200	300	400	600	VOLTS
Maximum RMS voltage	VRMS	35	70	105	140	210	280	420	VOLTS
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	VOLTS
Maximum average forward rectified current at TL=55°C	l(AV)	1.0			Amp				
Peak forward surge current									
8.3ms single half sine-wave superimposed on	Ігѕм				30.0				Amps
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	0.95 1.25		Volts					
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR	5.0 50.0		uA					
Maximum reverse recovery time (NOTE 1)	trr	35		ns					
Typical junction capacitance (NOTE 2)	Cı	15.0		pF					
Typical thermal resistance (NOTE 3)	Rqja	60.0		°C/W					
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150		°C					

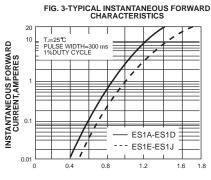
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

- 3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

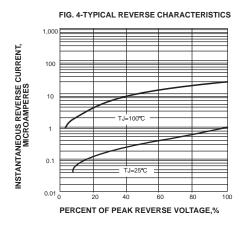


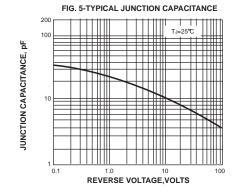


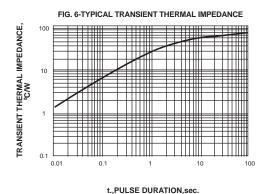






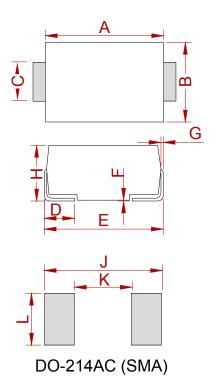








## **PACKAGE MECHANICAL DATA**



	Dimensions					
Ref.	Millin	neters	Inches			
	Min.	Max.	Min.	Max.		
Α	4.25	4.65	0.167	0.183		
В	2.50	2.90	0.098	0.114		
С	1.35	1.65	0.053	0.065		
D	0.76	1.52	0.030	0.060		
Е	4.93	5.28	0.194	0.208		
F	0.051	0.203	0.002	0.008		
G	0.15	0.31	0.006	0.012		
Н	1.98	2.41	0.078	0.095		
J	6.50		0.256			
K		2.30		0.090		
L	1.70		0.067			

## **REEL SPECIFICATION**

P/N	PKG	QTY
ES1A THRU ES1J	SMA	2000



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