

Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- Super Fast Recovery Times for High Efficiency
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

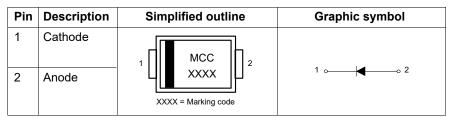
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Devenueter	Cumhal	Value						l la it
Parameter	Symbol	ES 2A-L	ES 2B-L	ES 2C-L	ES 2D-L	ES 2G-L	ES 2J-L	Unit
Peak Repetitive Reverse Voltage	V_{RRM}							
Working Peak Reverse Voltage	V_{RWM}	50	100	150	200	400	600	V
DC Blocking Voltage	V_{R}				l			
RMS Reverse Voltage	V _{RMS}	35	70	105	140	280	420	V
Average Rectified Forward Current @ $T_L=110^{\circ}C$	I _{F(AV)}	2					A	
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave		50					A	
Non-Repetitive Peak Surge Current @1ms Half Sine Wave	I _{FSM}	100						
Current Squared Time @1ms≤t≤8.3ms	l ² t	10.375				A²s		

Marking code

Part Number	Marking code			
ES2A-L	ES2A			
ES2B-L	ES2B			
ES2C-L	ES2C			
ES2D-L	ES2D			
ES2G-L	ES2G			
ES2J-L	ES2J			

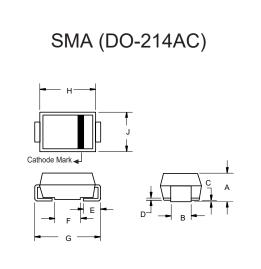
Internal Structure



Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

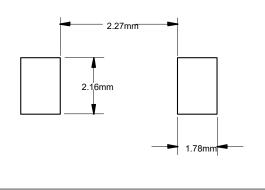
2. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

2 Amp Super Fast Recovery Rectifier 50 to 600 Volts



	DIMENSIONS						
		HES	MM		NOTE		
DIN	MIN	MAX	MIN	MAX	NOTE		
Α	0.075	0.096	1.90	2.44			
В	0.050	0.064	1.27	1.63			
С	0.002	0.008	0.051	0.203			
D		0.020		0.51			
Е	0.030	0.060	0.76	1.52			
F	0.065	0.091	1.65	2.32			
G	0.189	0.220	4.80	5.59			
Н	0.157	0.187	4.00	4.75			
J	0.090	0.115	2.25	2.92			

SUGGESTED SOLDER PAD LAYOUT





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-65		175	°C
T _{stg}	Storage Temperature Range		-65		175	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		20		°C /W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		65		°C /W

Note:

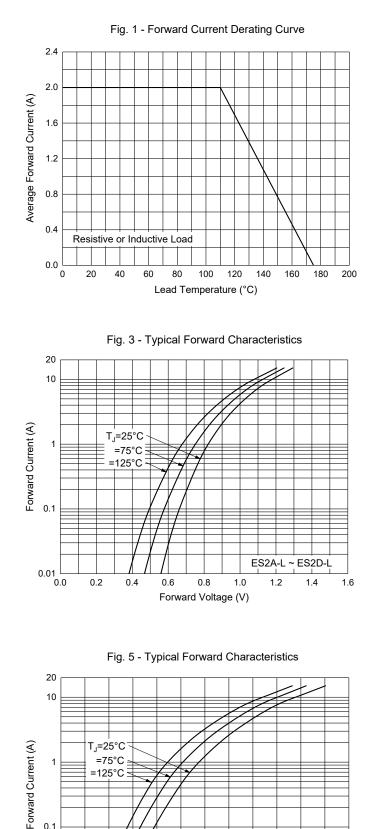
1.Mounted on P.C.B. with 8mm*8mm copper pad areas.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage						
ES2A-L ~ ES2D-L	V _F	I _F =2A;T _J =25°C			0.95	
ES2G-L					1.25	V
ES2J-L					1.70	
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			1 100	uA
Reverse Recovery Time	t _{rr}	I _F =0.5A; I _R =1.0A; I _{rr} =0.25A;T _J =25°C			35	ns
Junction Capacitance						
ES2A-L ~ ES2D-L	CJ	V _R =4V;f=1MHz;T _J =25°C		30		
ES2G-L	Ŭ			18		pF
ES2J-L				12		



Curve Characteristics



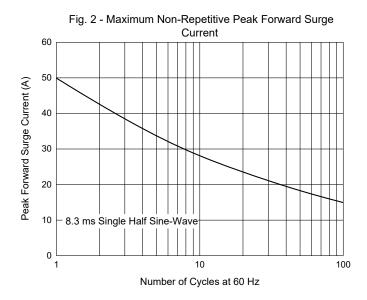


Fig. 4 - Typical Forward Characteristics

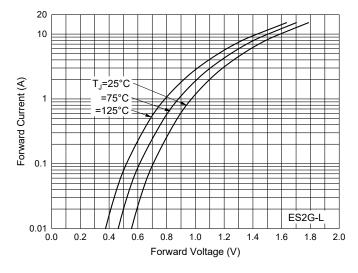
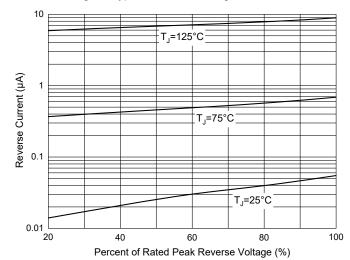


Fig. 6 - Typical Reverse Leakage Characteristics



0.01

0.4

0.8

0.1

ES2J-L

2.4

2.0

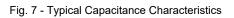
1.2

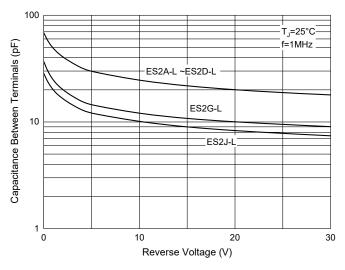
Forward Voltage (V)

1.6



Curve Characteristics







Ordering Information

Device	Packing			
ES2A-LTP ~ ES2J-LTP	Tape&Reel:5Kpcs/Reel			

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