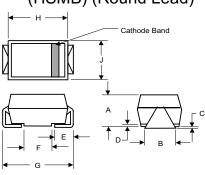


ER2A THRU ER2M

SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Amperes

DO-214AA (HSMB) (Round Lead)



	INCHES		MM			
DIM	INCITED		IVIIVI			
	MIN	MAX	MIN	MAX	NOTE	
A	.078	.116	1.98	2.95		
В	.075	.089	1.90	2.25		
С	.002	.008	.05	.20		
D		.02		.51		
E	.035	.055	.90	1.40		
F	.065	.091	1.65	2.32		
G	.205	.224	5.21	5.69		
Н	.160	.180	4.06	4.57		
J	.130	.155	3.30	3.94		

FEATURES

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates
- Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability
- Classification Rating 94 V-0 and MSL rating 1
- Easy Pick And Place
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Ultrafast Recovery Times For High Efficiency

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic body over passivated chip Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight :0.005 ounce, 0.138 grams

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%.

MDD Catalan N	SYMBOLS	FDOA	FROR	5000	FROD	FDOF	FRAG	ED01	FRAK	FROM	UNITS
MDD Catalog Number	STIVIBULS	ER2A	ER2B	ER2C	ER2D	ER2E	ER2G	ER2J	ER2K	ER2M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	150	200	300	400	600	800	1000	VOLTS
Maximum RMS voltage	Vrms	35	70	105	140	210	280	420	560	700	VOLTS
Maximum DC blocking voltage	Vdc	50	100	150	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current at T∟=55°C	l(AV)	2.0								Amps	
Peak forward surge current											
8.3ms single half sine-wave superimposed on	IFSM	50.0							Amps		
rated load (JEDEC Method)											
Maximum instantaneous forward voltage at 2.0A	Vf	0.975 1.35 1.7				7	Volts				
Maximum DC reverse current Ta=25°C		5.0									μA
at rated DC blocking voltage Ta=100°C	lr	150.0									
Maximum reverse recovery time (NOTE 1)	trr	50		60			100		ns		
Typical junction capacitance (NOTE 2)	Сл	25.0								pF	
Typical thermal resistance (NOTE 3)	Reja	20.0								°C/W	
Operating junction and storage temperature range	Тј Тѕтс	-50 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.

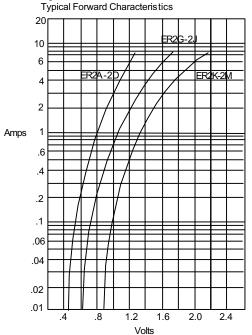
3.Pulse test: Pulse width 200 sec, Duty cycle 2%

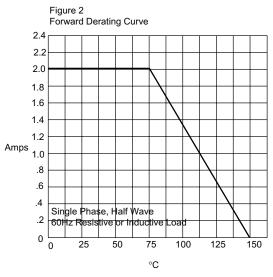
4. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

MDD ELECTRONIC

RATINGS AND CHARACTERISTIC CURVES ER2A THRU ER2M

Figure 1





Average Forward Rectified Current - Amperes/ersus Ambient Temperature $-^{\circ}C$

