

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

Features

- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 Low forward voltage drop and high current capability
- Glass passivated die construction
- Surge overload rating to 100A peak
- Ideally suited for automatic assembly Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates
- Compliant. See ordering information)

Maximum Ratings

- Terminals: Solder Plated Terminal Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Operating Junction Temperature:-55°C to +150°C
- Storage Temperature: -55°C to +150°C

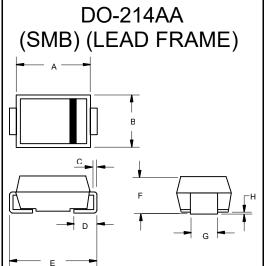
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS DC	
Number	-	Peak Reverse	Voltage	Blocking
		Voltage	-	Voltage
S3AB	S3AB	50V	35V	50V
S3BB	S3BB	100V	70V	100V
S3DB	S3DB	200V	140V	200V
S3GB	S3GB	400V	280V	400V
S3JB	S3JB	600V	420V	600V
S3KB	S3KB	800V	560V	800V
S3MB	S3MB	1000V	700V	1000V

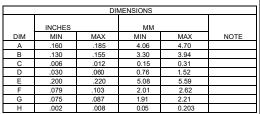
3.0 Amp Glass **Passivated Rectifier** 50 to 1000 Volts

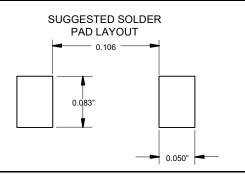
S3AB

THRU

S3MB





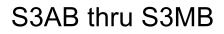


Electrical Characteristics @ 25°C Unless Otherwise Specified

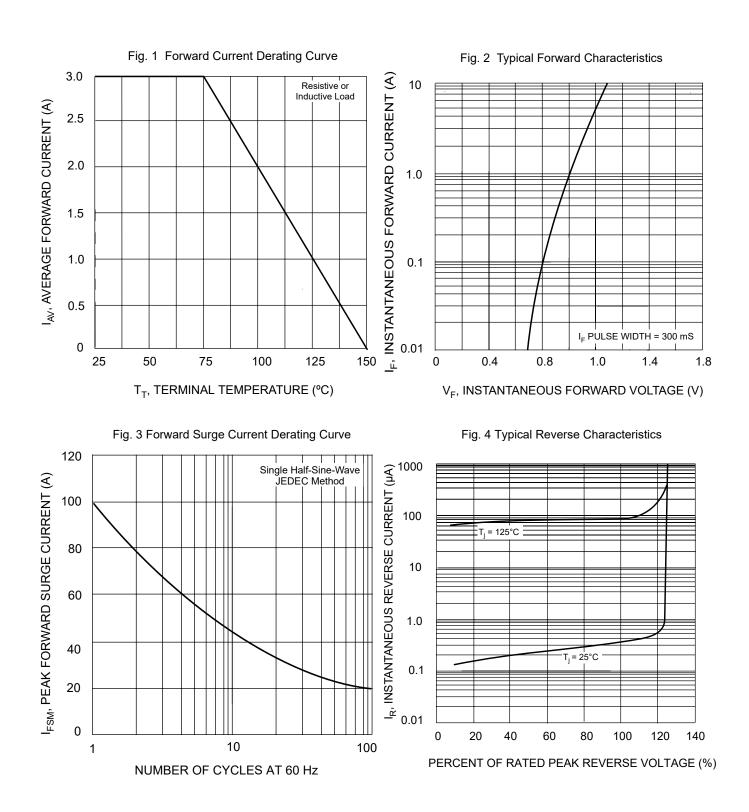
Average Forward Current	l _o	3.0A	T _T = 75 ⁰ C
Non-Repetitive Peak Forward Surge Current	I _{FSM}	100A	8.3ms, half sine
Repetitive Peak Forward Surge Current	I _{FRSM}	150A	300us surge duration 900 ms between surges
Maximum Instantaneous Forward Voltage	V_{F}	1.15V	I _{FM} = 3.0A; T _J = 25 ^o C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10µА 250µА	$T_{J} = 25^{\circ}C$ $T_{J} = 125^{\circ}C$
Typical Junction Capacitance	C	40pF	Measured at 1.0MHz, V _R =4.0V
Typical Thermal Resistance	R_{thJL}	10°C/W	

Note1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a

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S3AB thru S3MB



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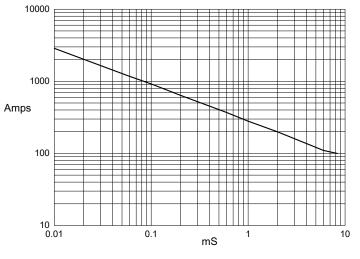


Fig 5.Peak Forward Surge Current

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Peak Forward Surge Current - A Pulse Duration - Milliseconds (mS)



Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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