

Data Sheet

Customer : _____

Product : Surface Mounted High-efficiency Rectifiers _____

Package : DO-214AB/SMC _____

Issued Date : 01-Aug.-2026 _____

Edition : Ver. 1 _____

Record of change

Date	Ver.	Description	Page
01-Aug.-2026	1		

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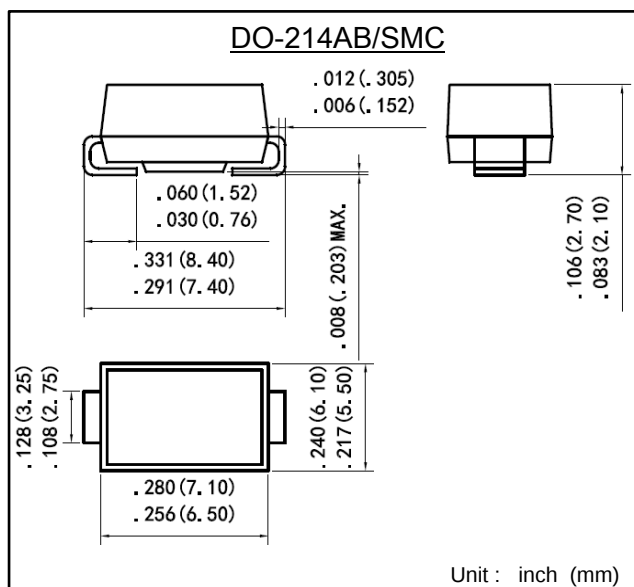
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01-Aug.-2026	01-Aug.-2026	01-Aug.-2026	
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Surface Mounted High-efficiency Rectifiers

Reverse Voltage 50 ~ 1000 V

Forward Current 3.0 A



Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed : 260°C/10seconds
- Lead and body according with RoHS standard

Mechanical Data

- Case : DO-214AB Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Pure tin plated, lead free
- Accreditation through IATF16949 System
- High reliability grade (AEC Q101 qualified)

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	HUS3A-Q	HUS3B-Q	HUS3D-Q	HUS3G-Q	HUS3J-Q	HUS3K-Q	HUS3M-Q	Unit
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(AV)}	3.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	100							A
Maximum forward voltage @IF=3.0A	V _F	1.0			1.3	1.7			V
Maximum reverse current @V _{DC} TA= 25°C TA= 100°C	I _R	5							μA
		100							
MAX. reverse recovery time IF=0.5A , IR=1.0A ,IRR=0.25A	T _{RR}	50				75			nS
Typical thermal resistance (Note 1)	R _{θ JA}	55							°C/W
Type junction capacitance VR=4.0V,f=1MHz	C _J	55							pF
Operating junction temperature rang	T _J	-55 --- +150							°C
storage temperature rang	T _{STG}	-55 --- +150							°C

Note:

1) Thermal resistance from junction to ambient, PCB mounted.

Characteristic Curves

