

Data Sheet

Customer : _____

Product : Surface Mounted Schottky Barrier 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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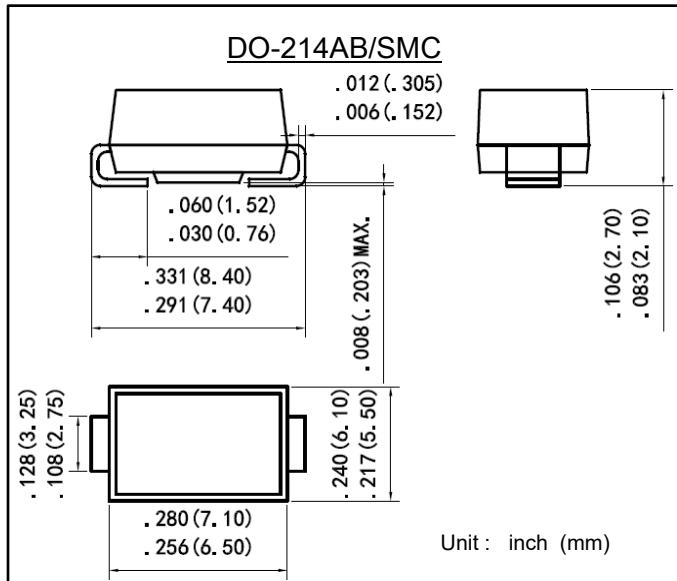
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01-Aug.-2026	01-Aug.-2026	01-Aug.-2026	
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Surface Mounted Schottky Barrier Rectifiers

Reverse Voltage 20 ~ 200 V

Forward Current 5.0 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
- System : Accreditation through IATF16949 System
- High reliability grade (AEC Q101 qualified)

Maximum Ratings & Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	HSS52-Q	HSS54-Q	HSS56-Q	HSS510-Q	HSS515-Q	HSS520-Q	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	60	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	42	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	40	60	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	5.0						A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	150						A
Maximum forward voltage @IF=5.0A	V _F	0.55		0.70	0.85	0.92	0.95	V
Maximum reverse current @V _{DC} TA= 25°C TA= 100°C	I _R	0.5			0.1			mA
		20			10			
Typical thermal resistance (Note 1)	R _{θJA}	65						°C/W
	R _{θJL}	15						
junction capacitance VR=4.0V,f=1MHz Type	C _J	300						pF
Operating junction	T _J	-55 --- +125			-55 --- +150			°C
Storage temperature rang	T _{STG}	-55 --- +150						°C

Note :

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

Characteristic Curves

