

Data Sheet

Customer : _____

Product : Surface Mounted Schottky Barrier Rectifiers _____

Package : DO-214AC/SMA _____

Issued Date : 01-Aug.-2026 _____

Edition : Ver. 1 _____

Record of change

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

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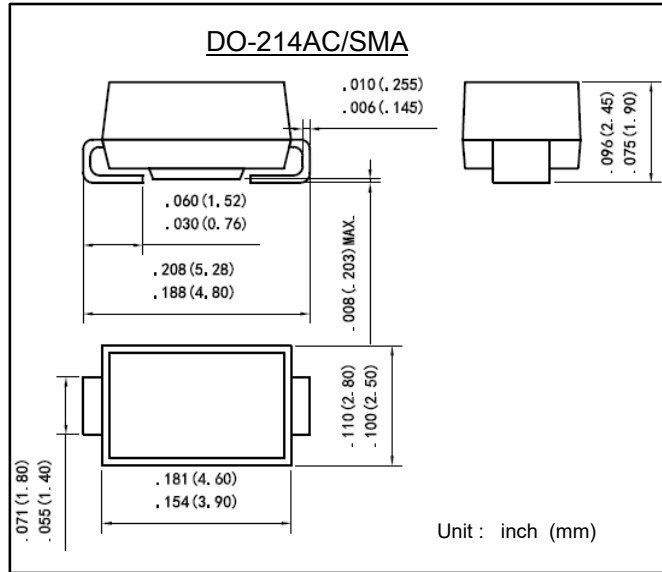
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Prepared by	Checked by	Approved by	Accepted by (customer)
01-Aug.-2026	01-Aug.-2026	01-Aug.-2026	
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Surface Mounted Schottky Barrier Rectifiers

Reverse Voltage 20 ~ 200 V

Forward Current 1.0 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-214AC 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.

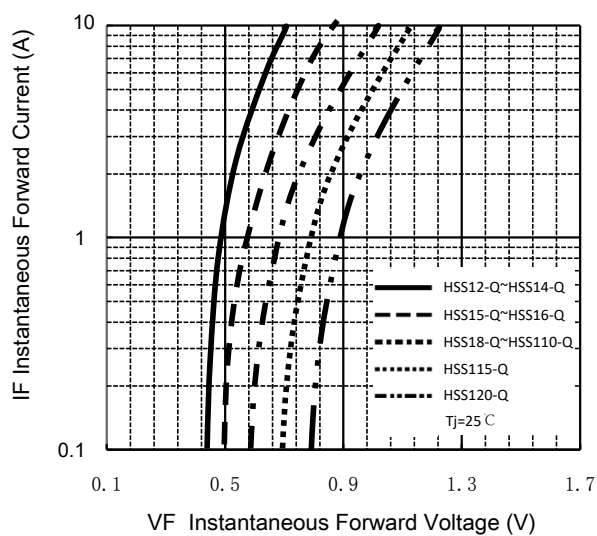
Parameter	Symbols	HSS12-Q	HSS13-Q	HSS14-Q	HSS15-Q	HSS16-Q	HSS18-Q	HSS110-Q	HSS115-Q	HSS120-Q	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	1.0									A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	30									A
Maximum forward voltage @IF=1.0A	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}	85									°C/W
	R _{θJL}	25									
Type junction capacitance VR=4.0V,f=1MHz	C _J	90									pF
Operating junction	T _J	-55 --- +125					-55 --- +150				°C
Storage temperature rang	T _{STG}	-55 --- +150									°C

Note :

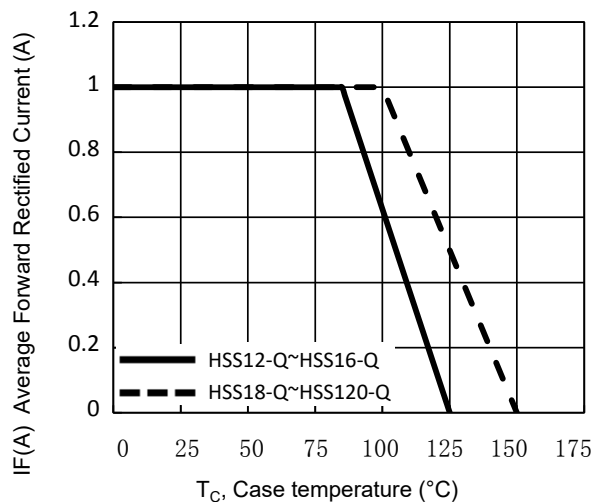
1) Thermal resistance from junction to ambient , PCB mounted.

Characteristic Curves

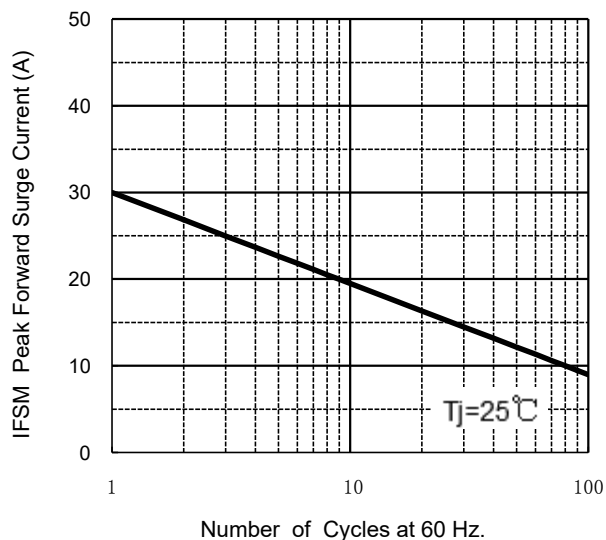
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



**MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT**



Typical Reverse Characteristics

