

Surface Mount Schottky and PIN Diodes

Market Positioning Guide

Surface Mount Diode Positioning Schottky Diodes

Applications	Part Numbers	Markets	Positioning	Application Notes
Clamping/Clipping	*HBAT-540 <i>a</i> New HBAT-540 <i>x</i>	Computer	Replacement for industry standard BAT-54	1069
Clamping/Clipping	*HSMS-270 <i>a</i> New HSMS-270 <i>x</i>	Computer	Better power handling, Rs than BAT-54	1069
Detectors, Mixers, Clamping/Clipping	*HSMS-282 <i>a</i> HSMS-282 <i>x</i>	Cellular, Cordless, Wireless Data, WLL, RFID, Everything!!	Use instead of HSMS-280x unless very high V_{BR} is needed	923, 956-1, 956-4, 956-5, 956-6, 963, 976, 986, 987, 988, 995, 997, 1069, 1088, 1089, 1124, 1156
High Breakdown Voltage, V_{BR}	*HSMS-280 <i>a</i> HSMS-280 <i>x</i>	Cellular, Cordless, Niche μ wave	High voltage (70 V_{BR}) only	956-3, 1069
Detectors, Clipping/Clamping	*HSMS-286 <i>a</i> HSMS-286 <i>x</i>	Cellular, Cordless	High frequency detector	923, 956-1, 956-4, 956-5, 956-6, 963, 986, 987, 988, 1088, 1089, 1124
Detectors, Low Data Rate Mixers	*HSMS-281 <i>a</i> HSMS-281 <i>x</i>	ISM, RFID	Lowest flicker noise device	923, 956-3
Detectors	*HSMS-285 <i>a</i> HSMS-285 <i>x</i>	RFID, Niche μ wave	Zero bias detector	923, 956-1, 956-3, 956-4, 956-5, 956-6, 963, 969, 986, 1088, 1089, 1124, 1156
High Frequency Mixers	HSMS-8101/820 <i>x</i>	ISM, RFID, TV Delivery (Ku)	Premium performance at frequencies above 5 GHz	963, 995, 997, 1052

* SOT-323/SOT-363 (SC-70) Product Series

 = Recommended Part

Surface Mount Diode Positioning PIN Diodes

Applications	Part Numbers	Markets	Positioning	Application Notes
Attenuators AGC Circuits	*HSMP-381a HSMP-381x HSMP-4810	Base Station, CATV, Niche μ Wave	Industry's lowest distortion attenuator PIN	922, 1048, 1124
Attenuators AGC Circuits	HSMP-380x	Base Station, CATV, Niche μ Wave	2nd best to HSMP-381X - Not recommended for new designs	922, 1048, 1124
Attenuators AGC Circuits Switching	*HSMP-386a HSMP-386x	Cordless, Cellular, CATV, Pagers	Low current attenuators, high frequency switches	922, 929, 957-2, 1048, 1049, 1067, 1124
Attenuators Switching	HSMP-383x	Base Station, Non price-sensitive applications	Recommended for specialty applications, low/high current attenuator	922, 929, 957-2, 1048, 1049, 1067, 1124
Switching Low current < 1.5 GHz	*HSMP-389a HSMP-389x HSMP-4890	Cordless, Cellular, TV delivery, RFID	900 MHz switching device	922, 929, 957-2, 1049, 1067, 1072, 1124
Switching Limiters <500 MHz	HSMP-382x HSMP-4820	Base Station, Mobile Radio	Use only for applications where low Rs is needed and where high capacitance can be tolerated	922, 929, 957-2, 1050, 1054, 1124
Switching High power	HSMP-3880	Base Station, Mobile Radio	Specialty device - high power, low distortion switch	922, 957-2, 1049, 1124

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